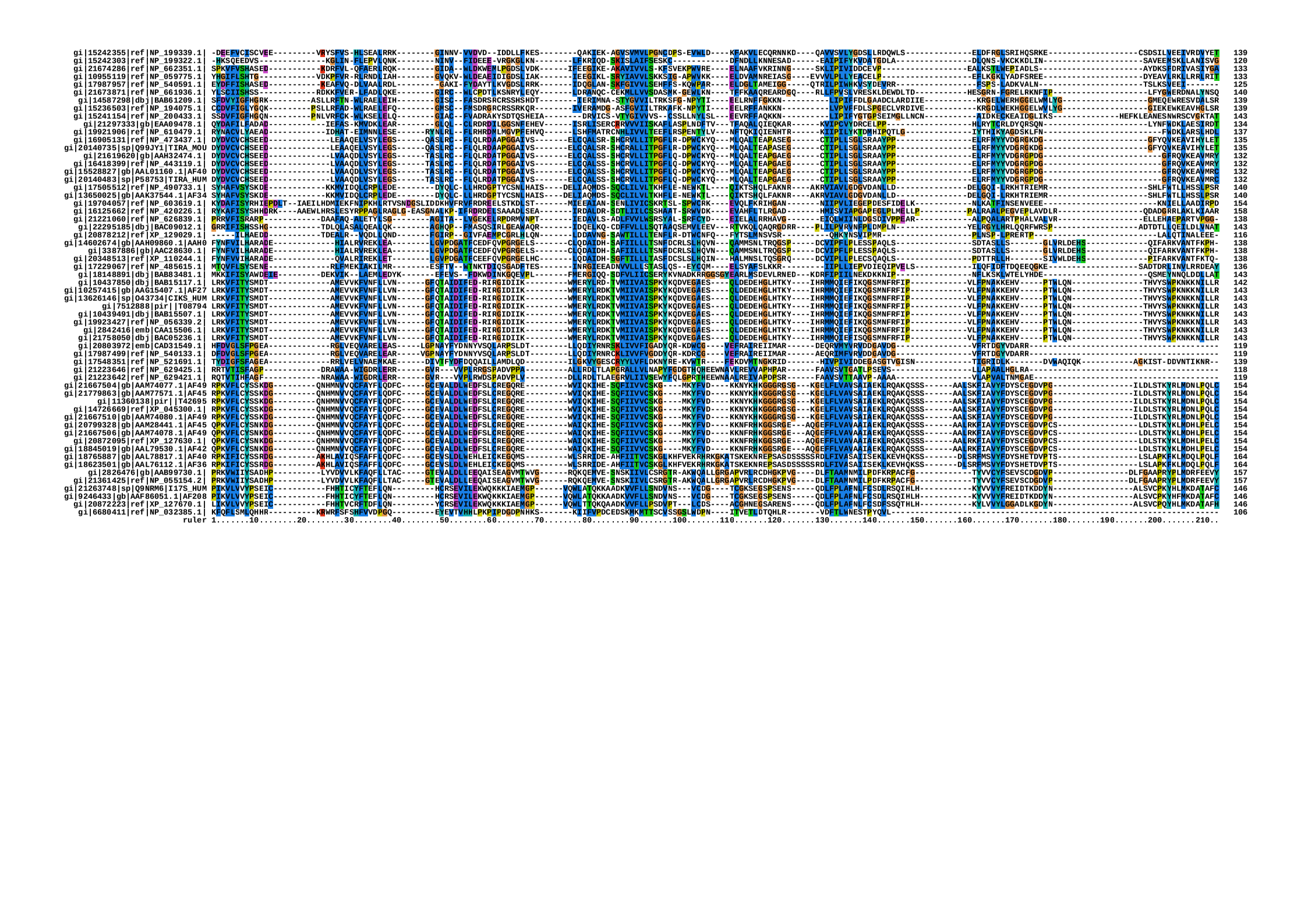
```
     gi|7295166|gb|AAF50491.1| TLDVFVSYRRSN----------GSQLAS-LLKVHLQLR-------GFSV--FIDVERL-EAGKFDNG-------LLNSIRQ-AKNFVLVLTPDAIH-RCINDE----DCKDWVHR-------------EIVAALNSNCNIIPIIDQQFDWPEV-------ERLPED-MRSVAHFNGVNWIHD----------YQDACIDKLERFLRGE   143
     gi|18447238|gb|AAL68207.1| TLDVFVSYRRSN----------GSQLAS-LLKVHLQLR-------GFSV--FIDVERL-EAGKFDNG-------LLNSIRQ-AKNFVLVLTPDAIH-RCINDE----DCKDWVHR-------------EIVAALNSNCNIIPIIDQQFDWPEV-------ERLPED-MRSVAHFNGVNWIHD----------YQDACIDKLERFLRGE   143
     gi|21298926|gb|EAA11071.1| NLDVFVSYRRSN----------GSQLAS-LLKVHLELR-------GFSV--FIDVERL-EAGKFDN-------NLLQSIRH-ARHFLLVLTPDAIN-FQWPEP------DCKDWVHR-------------EIVAALNSECNIIPIIDN-FQWPEP------EKLPED-MRGVCHFNGIRWIHD----------YQDACVDK--------   134
   gi|14149667|ref|NP_055892.1| TPDVFISYRRNS----------GSQLAS-LLKVHLQLH-------GFSV--FIDVEKL-EAGKFED------KLIQSVMG-ARNFVLVLSPGAID-KCMQDH----DCKDWVHK-------------EIVTALSCGKNIVPIIDG-FEWPEP------QVLPED-MQAVLTFNGIKWSHE----------YQEATIEKIIRFLQGR   142
     gi|3043572|dbj|BAA25450.1| TPDVFISYRRNS----------GSQLAS-LLKVHLQLH-------GFSV--FIDVEKL-EAGKFED------KLIQSVMG-ARNFVLVLSPGAID-KCMQDH----DCKDWVHK-------------EIVTALSCGKNIVPIIDG-FEWPEP------QVLPED-MQAVLTFNGIKWSHE----------YQEATIEKIIRFLQGR   142
  gi|20346186|ref|XP_111086.1| TPDVFISYRRNS----------GSQLAS-LLKVHLQLH-------GFSV--FIDVEKL-EAGKFED------KLIQSVIA-ARNFVLVLSAGAID-KCMQDH----DCKDWVHK-------------EIVTALSCGKNIVPIIDG-FEWPEP------QALPED-MQAVLTFNGIKWSHE----------YQEATIEKIIRFLQGR   142
  gi|17553054|ref|NP_497785.1| QIDVFISYRRST----------GNQLAS-LIKVLLQLR-------GYRV--FIDVDKL-YAGKFDS------SLLKNIQA-AKHFILVLTPNSLD-RLLNDD----NCEDWVHK-------------ELKCAFEHQKNIIPIFDTAFEFPTK-----EDQIPND-IRMITKYNGVKWVHD----------YQDACMAKVVRFITGE   144
  gi|17553056|ref|NP_497784.1| QIDVFISYRRST----------GNQLAS-LIKVLLQLR-------GYRV--FIDVDKL-YAGKFDS------SLLKNIQA-AKHFILVLTPNSLD-RLLNDD----NCEDWVHK-------------ELKCAFEHQKNIIPIFDTAFEFPTK-----EDQIPND-IRMITKYNGVKWVHD----------YQDACMAKVVRFITGE   144
  gi|21218854|ref|NP_624633.1| QRDAFISYSQSKNAPLAKQL---QRGLER-LAVSRFRPM-------RMSV--FRDVTSLPANHDLWQ------SIQRELAR-SRYFILASPEAAA-SPWVAR----EVDYWLRERDTE------HLLIAVASGEIVWDDRAGDFDWRKT-------TSLPRN-LAGHFTAAP-LWVD----------LREIGERS------   146
  gi|21224291|ref|NP_630070.1| RIDAFVSYSRAADSRLAPSI---QRGLAR-LAKKWYRTR-------ALNV--FRDQTDLSASHALGA------SIERALAD-ARFFVLLASPAAAE-SKWVAK----EIEFWQRNRTSD------TFLVALTDGIRWDDEAGDFDWSVT-------DALPRS-LSGYFEAEP-LWQD----------LTWSRDAD-----   146
  gi|15219124|ref|NP_175698.1| LHDVFINHRGSDT---------KRNIAT-LYDNLKSR-------NLRP--FLDSKNMKPGDKLFD------HINNAILT-SKVAVTVFSPNYCD-SYFCLH----ELALIMESR-------KRVIPIFCDIKPSQLDVMIERV---TCSDDEIQRFRWA-LQEAKDIVG----------LTFDSYKGNISEV   141
  gi|15219864|ref|NP_176305.1| PCDIFINHRGIDT---------KKTISG-LLYDCFTRQ-------RLTA--FLDSKSLKPGDRLFV------EIDMAIKA-CGVGIAVFSPRYCD-SYFCLH----ELALLVKNK-------KRVIPIFCDVKPSELCVKDDK---IRPAAEIRRQLA-LEEAKYTVGHDP----------LTFDTSN------   137
   gi|13509211|emb|CAC35325.1| EYEVFLSFRGPDV---------RQTFAD-HLYAWLVRS-------KIRT--FRDEEGLQKGETIGS------SLIQAITE-SKIYIPILTQNYAS-SKWCLQ----ELAKMVDCWKNGGGGKGQHIILPVFYFMDPRDVRHPDSG----------PYKEA-FEQHNLKHDP----------ETILEWKEALQDVGKM   145
   gi|13509225|emb|CAC35332.1| EYEVFLSFRGPDV---------RQTFAD-HLYAWLVRS-------KIRT--FRDEEGLQKGETIGS------SLIQAITE-SKIYIPILTQNYAS-SKWCLQ----ELAKMVDCWKNGGGGKGQHIILPVFYFMDPRDVRHPDSG----------PYKEA-FEQHNLKHDP----------ETILEWKEALQDVGKM   145
   gi|13509217|emb|CAC35328.1| EYEVFLSFRGPDV---------RQTFAD-HLYAWLVRS-------KIRT--FRDEEGLQKGETIGS------SLIQAITE-SKIYIPILTQNYAS-SKWCLQ----ELAKMVDCWKNGGGGKGQHIILPVFYFMDPRDVRHPDSG----------PYKEA-FEQHNMKHDP----------ETILEWKEALQDVGKM   145
   gi|13509209|emb|CAC35323.1| EYEVFLSFRGPDV---------RQTFAD-HLYTSLVRS-------KIRT--FRDEEGLQKGETIGP------SLIQAITE-SKIYIPILTQNYAS-SKWCLQ----ELAKMVNCWKNGGEAKGQHIILPVFYFMDPRDVRHPDSG----------PYKES-FEQHNLKHDP----------ETILEWKGAPQEVGKM   145
   gi|13509215|emb|CAC35327.1| EYEVFLSFRGPDV---------RQTFAD-HLYTSLVRS-------KIRT--FRDEEGLQKGETIGP------SLIQAITE-SKIYIPILTQNYAS-SKWCLQ----ELAKMVNCWKNGGEAKGQHIILPVFYFMDPRDVRHPDSG----------PYKES-FEQHNLKHDP----------ETILEWKGALQEVGKM   145
   gi|13509223|emb|CAC35331.1| EYEVFLSFRGPDV---------RQTFAD-HLYTSLVRS-------KIRT--FRDEEGLQKGETIGP------SLIQAITE-SKIYIPILTQNYAS-SKWCLQ----ELAKMVNCWKNGGEAKGQHIILPVFYFMDPRDVRHPDSG----------PYKES-FEQHNLKHDP----------ETILEWKGALQEVGKM   145
   gi|13509229|emb|CAC35334.1| EYEVFLSFRGSDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELRKGGITGP------SIIRAITE-SKIYIPILTPNYAS-SKWCLQ----ELAKMVECWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEEHSQKHDP----------ETVLEWKEALQEVGKM   145
   gi|13509236|emb|CAC35338.1| EYEVFLSFRGPDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELRKGGITGP------SIIRAITE-SKIYIPILTPNYAS-SKWCLQ----ELAKMVECWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEQHSQKHDP----------ETVLEWKEALQEVGKM   145
   gi|13509234|emb|CAC35337.1| EYEVFLSFRGSDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELRKGGAIGP------SIIRAITE-SKIYIPILTPNYAS-SKWCLQ----ELAKMVECWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEQHSQKHDP----------ETVLEWKEALQEVGRM   145
   gi|13509227|emb|CAC35333.1| EYEVFLSFRGPDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELRKGGTIGP------SIIRAITE-SKIYIPILTPNYAS-SKWCLQ----ELAKMVECWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEQHSQKHDP----------ETVLEWKEALQEVGRM   145
   gi|13509219|emb|CAC35329.1| EYEIFLSFRGLDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELEKGGAIGP------SIIRAITE-SKIYIPILTPNYAS-SKWCLQ----ELAKMVECWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEQHRQKHDP----------ETVLEWKEALQEVGKM   145
   gi|13509238|emb|CAC35339.1| EYEIFLSFRGLDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELEKGGTIGP------SLIRAITE-SKIYIPIMTQNYAS-SKWCLQ----ELAKMVDCWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEQHSQKHDP----------ETVLEWKEALQEVGRM   145
   gi|13509213|emb|CAC35326.1| EYEIFLSFRGLDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELEKGGTIGP------SLIRAITE-SKIYIPIMTQNYAS-SKWCLQ----ELAKMVDCWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEQHSQKHDP----------ETVLEWKEALQEVGRM   145
   gi|13509221|emb|CAC35330.1| EYEIFLSFRGLDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELEKGETIGP------SLIRAITE-SKIYIPILTPNYAS-SKWCLQ----ELAKMVECWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEQHSQKHDP----------ETVLEWKEALQEVGRM   145
   gi|13509207|emb|CAC35321.1| EYEVFLSFRGPDV---------RKTFAD-HLYTSLVRS-------KFRT--FRDEEELEKGGTIGP------SLIRAITE-SKIYIPILTPNYAS-SKWCLQ----ELAKMVGCWKSGGGAKGQHIILPVFLFVDPRDVRHTESG----------SYKEA-FEEHSQKFDG----------ETVLEWKEALQEVGEM   145
gi|4588054|gb|AAD25968.1|AF093 EYEVFLSFRGPDT---------REQFTD-FLYQSLRRY-------KIHT--FRDDDELLKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------QTIQNWKDALKKVGDL   140
        gi|7488902|pir||T18547 EYEVFLSFRGPDT---------REQFTD-FLYQSLRRY-------KIHT--FRDDDELLKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------QTIQNWKDALKKVGDL   140
        gi|7488901|pir||T18546 EYEVFLSFRGPDT---------REQFTD-FLYQSLRRY-------KIHT--FRDDDELLKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------QTIQNWKDALKKVGDL   140
gi|4588056|gb|AAD25969.1|AF093 EYEVFLSFRGPDT---------REQFTD-FLYQFLRRY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFEG----------QTIQNWKDALKKVGDL   140
gi|4588050|gb|AAD25966.1|AF093 EYEVFLSFRGPDT---------REQFTD-FLYQFLRRY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFEG----------ETIQNWKDALKKVGDL   140
gi|4588066|gb|AAD25974.1|AF093 EYEVFLSFRGPDT---------REQFTD-FLYQFLRRY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------ETIQNWKDALKKVGDL   140
gi|4588070|gb|AAD25976.1|AF093 EYEVFLSFRGPDT---------REQFTD-FLYHFLCRY-------KIHT--FRDDDELRKGEEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------QTIQNWKDALKKVGDL   140
gi|4588062|gb|AAD25972.1|AF093 EYEVFLSFRGPDT---------REQFTD-FLYHFLCRY-------KIHT--FRDDDELRKGEEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFNG----------QTIQNWKDALKKVGDL   140
gi|4588068|gb|AAD25975.1|AF093 EYDVFLSFRGPDT---------REQFTD-FLYHFLCRY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------ETIQNWKDALKKVGDL   140
gi|4588052|gb|AAD25967.1|AF093 EYDVFLSFRGPDT---------RKQFTD-FLYHFLCYY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------QTIQNWKDALKKVGDL   140
gi|4588060|gb|AAD25971.1|AF093 EYDVFLSFRGPDT---------RKQFTD-FLYHFLCYY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------QTIQNWKDALKKVGDL   140
gi|4588064|gb|AAD25973.1|AF093 EYDVFLSFRGPDT---------RKQFTD-FLYHFLCYY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKFDG----------QTIQNWKDALKKVEDL   140
gi|4588048|gb|AAD25965.1|AF093 EYDVFLSFRGPDT---------RKQFTD-FLYHFLCYY-------KIHT--FRDDDELRKGKEIGP------NLLRAIDQ-SKIYVPIISSGYAD-SKWCLM----ELAEIVRRQEEDP----RRIILPIFYMVDPSDVRH-QTG----------CYKKA-FRKHANKYDE----------ETIQNWKDALKKVGDL   140
        gi|7488903|pir||T18548 EYDVFLSFRGPDT---------RYQITD-ILYRFLCRS-------KIHT--FKDDDELHKGEEIKV------NLLRAIDQ-SKIYVPIISRGYAD-SKWCLM----ELAKIVRHQKLDT----RQIIIPIFYMVDPKDVRH-QTG----------PYRKA-FQKHSTRFSE----------MTIRSWKNALNEVGAL   140
  gi|15223443|ref|NP_174037.1| KVDVFLSFRGADT---------RDNFGD-HLYKALKD-------KVRV--FRDNEGMERGDEISS------SLKAGMED-SAASVIVISRNYSG-SRWCLD----ELAMLCKMKSSL-----DRRILPIFYHVDPSHVRK-QSD----------HIKKD-FEEHQVRFSE----------EKEKVQEWREALTLVGNL   140
gi|10121908|gb|AAG13418.1|AC00 KVDVFLSFRGADT---------RDNFGD-HLYKALKD-------KVRV--FRDNEGMERGDEISS------SLKAGMED-SAASVIVISRNYSG-SRWCLD----ELAMLCKMKSSL-----DRRILPIFYHVDPSHVRK-QSD----------HIKKD-FEEHQVRFDE----------EKEKVQEWREALTLVGNL   140
  gi|15223444|ref|NP_174038.1| KVSVFLSFRGFDT---------RTNFCE-RLYIALNEK------QNVRV--FRDNEGMEKGDKIDP------SLFEAIED-SAASVIILSTNYAN-SSWCLD----ELALLCDLRSSL-----KRPMIPIFYGVNPEDVRK-QSG----------EFRKD-FEEKAKSFDE----------ETIQRWKRAMNLVGNI   140
gi|10121909|gb|AAG13419.1|AC00 KVSVFLSFRGFDT---------RTNFCE-RLYIALNEK------QNVRV--FRDNEGMEKGDKIDP------SLFEAIED-SAASVIILSTNYAN-SSWCLD----ELALLCDLRSSL-----KRPMIPIFYGVNPEDVRK-QSG----------EFRKD-FEEKAKSFGV----------ETIQRWKRAMNLVGNI   140
gi|20339360|gb|AAM19353.1|AF36 NGKFFLSFRGRRY---------ALRVYR-VLFINLYVK-------GDSRP--LWMMEDCRRGDQTSP------SLLNVIEA-SRLSIIVLSENYAN-STRCLD----ELVKILECKKLK----KQLVWPIFYKVEPSDIRN-MRK----------CYGKD-MARHENINKH----------DSERVQKWKSALGEVCNL   142
   gi|15787895|gb|AAL07539.1| NHDVFLSFRGEDT---------RNSFVD-HLYVALAQQ-------GILT--YKDDETLPRGERIGP------TLLKAIQE-SRIALVVFSENYAD-SSWCLD----ELAHIMECVDTRG-----QIVEPIFYFVDPSDVRK-QKG----------KYGKA-FRKHKRENKQ----------KVESWRKALEKAGNL   138
   gi|15787887|gb|AAL07535.1| NHDVFLSFRGEDT---------RNSFVD-HLYAALVQQ-------GIQT--YKDDQTLPRGERIGP------ALLKAIQE-SRIAVVVFSQNYAD-SSWCLD----ELAHIMECMDTRG-----QIVIPIFYFVDPSDVRK-QKG----------KYGKA-FRKHKRENKQ----------KVESWRKALEKAGNL   138
   gi|15787889|gb|AAL07536.1| KHEVFLSFRGEDV---------RKNFVD-HLYKDLVQQ-------GIQT--YKDDETLPRGERIGP------ALLKAIQE-SRIALVVFSENYAD-SSWCLD----ELAHIMECMDTRG-----QIVIPIFYFVDPSDVRK-QKG----------KYGKA-FRKHKRENKQ----------KVESWRKALEKAGNL   138
   gi|15787899|gb|AAL07541.1| KHEVFLSFRGEDV---------RKNFVD-HLYKDLVQQ-------GIQT--YKDDETLPRGERIGP------ALLKAIQE-SRIALVVFSENYAD-SSWCLD----ELAHIMECMDTRG-----QIVIPIFYFVDPSDVRK-QKG----------KYGKA-FRKHKRENKQ----------KVESWRKALEKAGNL   138
   gi|15787903|gb|AAL07543.1| KHEVFLSFRGEDA---------RKNFVD-HLYEDLVQQ-------GIQT--YKDDETLPRGERIGP------ALLKAIQE-SRIALVVFSQNYAD-SSSCLD----ELAHIMECVDTRG-----QIVMPVFYFVDPSDVRK-QNG----------KYGKA-FSKHERKNKQ----------KVESWRKALEKADNL   138
   gi|15787905|gb|AAL07544.1| KHEVFLSFRGEDT---------RKNFVD-HLYKDLVQQ-------GIQT--YKDDETLPRGERIGP------ALLKAIQE-SHFAVVVFSENYAD-SSWCLD----ELAHIMECVDTRG-----QIVIPIFYFVDPSDVRK-QNG----------KYGKA-FTKHERKNKQ----------KVESWRNALEKAGNL   138
   gi|15787897|gb|AAL07540.1| KHEVFLSFRGEDT---------RKNFVD-HLYKDLVQQ-------GIQT--YKDDETLRRGESIRP------ALLKAIQE-SRIAVIVFSENYAD-SSWCLD----ELQQIIECMDTNG-----QIVIPIFYFVHVDPSDVRK-QNG----------KYGKA-FRKHKKENKQ----------KVESWRKALEKAGNL   138
   gi|15787891|gb|AAL07537.1| KHEVFLSFRGEDT---------RNNFVD-HLYKDLAQQ-------GIQT--YKDDETLPRGERIGP------ALLKAIQE-SHIAVVVFSQNYAD-SRWCLD----ELAHIMECMDPSE-----QIVMPVFYHVNPSDVRN-QKG----------KYGKA-LSKHERKNKL----------KVESWRNALEKAGNL   138
   gi|15787901|gb|AAL07542.1| KYDVFLSFRGEDT---------RKSFVD-HLYEALEQR-------GIKT--YKDDETLPRGERIGP------ALLKAIQE-SRVAVIVFSKNYAD-SRWCLD----ELAHIMECMDTRG-----QIVMPIFYHVDPSDVRK-QKG----------KYGKA-FTKHERE-----------KVESWRKALEKAGKL   135
gi|12003378|gb|AAG43546.1|AF21 SYDVFLSFRGEDT---------RKTFTS-HLYEVLNDR-------GIKT--EQDDKRLEYGATISE------ELVKIMECKTQFG-----QLVIPVFYVDVDPSHVRN-QKE----------SFAKA-FEEHVTKYKDDVEG----------IQRWRRIALTAAAN   141
     gi|1086263|pir||A54810 SYDVFLSFRGEDT---------RKTFTS-HLYEVLNDK-------GIKT--EQDDKRLEYGATIPG------ELVKIMECKTRFK-----QTVIPIFYYVDPSHVRN-QKE----------SFAKA-FEEHETKYKDDVEG----------IQRWRRIALNEAAN   141
   gi|16944812|emb|CAC82812.1| KYDVFLSFR----------------------DDKRLENGDSLSK------ELVKAIKE-SQVAVIIFSKNYAT-SRWCLN----ELVKIMECKEEENG----QLVIPVFYVDVDPSHVRK-QTK----------SFAEA-FAEHESRYKDDVEG----------MQKVQRWRTALSEAADL   119
   gi|16944811|emb|CAC82811.1| KYDVFLSFRGKDT---------RRNFTS-HLYERLDNR-------GIFT--FLDDKRLENGDSLSK------ELVKAIKE-SQVAVIIFSKNYAT-SRWCLN----ELVKIMECKEEENG----QLVIPVFYVDVDPSHVRK-QTK----------SFAEA-FAEHESRYKDDVEG----------MQKVQRWRTALSEAADL   144
    gi|3947735|emb|CAA08798.1| KYDVFLSFRGVDT---------RRTFTS-HLYEGLKNR-------GIFT--FQDDKRLENGDSIPE------ELLKAIEE-SQVALIIFSKNYAT-SRWCLN----ELVKIMECKEEKG----QIVIPIFYVDVDPSEVRK-QTK----------SFAEA-FTEHESKYANDIEG----------MQKVKGWRTALSDAADL   144
    gi|3947733|emb|CAA08797.1| KYDVFLSFRGDDT---------RKTFTS-HLFEGLKHR-------GIFT--FQDDKRLEKGDSIPE------ELLKAIEE-SQVALVIFSKNYAT-SRWCLN----ELVKIMECKEVKK----QIVMPVFYVDVDPSDVRH-QTK----------SFAEA-FSKHKSRYKDDVDG----------MQMVQGWRTALSAADL   144
gi|9858476|gb|AAG01051.1|AF175 SYDVFLSFRGEDT---------RYGFTG-YLYNVLRER-------GIHT--FIDDDEPQEGDEITT------ALEAAIEK-SKIFIIVLSENYAS-SSFCLN----SLTHILNFTKENN---DVLVLPVFYRVNPSDVRH-HRG----------SFGEA-LANHEKKSNS----------KNNMELETWKMALHQVSNI   143
gi|9858478|gb|AAG01052.1|AF175 SYDVFLSFRGEDT---------RHGFTG-NLYNVVRER-------GIDT--FIDDEELQKGHEITK------ALEEAIEK-SKIFIIVLSENYAS-SSFCLN----ELTHILNFTKGKS---DRSILPVFYKVDPSDVRY-HRG----------SFGEA-LANHEKKLKS----------KNYMELQIWKMALQQVSNF   143
gi|18033111|gb|AAL56987.1|AF32 SNDVFLSFRGEDT---------RRGFTG-NLYKALSDR-------GIHT--FMDDKKIPRGDQITS------GLEKAIEE-SRIFIIVLSENYAS-SSFCLN----ELDYILKFIKGKG----ILILPVFYKVDPSDVRN-HTG----------SFGKA-LTNHEKKFKST----------KNDMELETWKMALNKVANL   143
     gi|9965103|gb|AAG00951.1| -------HEGDT---------RQGFTG-YLYKALCDR-------GIYT--FIDDQELRRGDEIKP------ALSNAIQE-SRIAITVLSQNYAS-SSFCLD----ELVTILHCK-SQG----LLVIPVFYKVDPSHVRH-QKG----------SYGEA-MAKHQKRFKA----------NKEKLQKWRMALHQVADL   133
gi|22037313|gb|AAM89998.1|AF40 NYDVFLSFTGQDT---------RQGFTG-YLYKALCDR-------GIYT--FIDDQELRRGDEIKP------ALSNAIQE-SRIAITVLSQNYAS-SSFCLD----ELVTILHCK-SQG----LLVIPVFYKVDPSHVRH-QKG----------SYGEA-MAKHQKRFKA----------NKEKLQKWRMALHQVADL   140
gi|9965109|gb|AAG09954.1|AF175 IYDVFLSFRGTDT---------RYGFTG-NLYKALCDK-------GFHT--FFDEDKLHSGEEITP------ALLKAIQD-SRVAIIVLSENYAF-SSFCLD----ELVTIFHCK-REG----LLVIPVFYKVDPSYVRH-QKG----------SYGEA-MTKHQERFKD----------KMEKLQEWRMALKQVADL   140
    gi|7341113|gb|AAF61210.1| IYDVFLSFRGEDT---------RSAFTG-HLYNTLQSK-------GIHT--FIDDEKLQRGEQITP------ALMKAIED-SRVAITVLSEHYAS-SSFCLD----ELATILHCDQRKR----LLVIPVFYKVDPSHVRH-QKG----------SYGEA-LAKLERRFQH----------DPEKLQNWKMAL------   135
gi|12056928|gb|AAG48132.1|AF32 VYDVFLSFRGEDT---------RRSFTG-NLYNCLEKR-------GIHT--FIGDYDFESGEEIKA------SLSEAIEH-SRVFVIVFSENYAS-SSWCLD----GLVRILDFTEDNH----RPVIPVFFDVEPSHVRH-QKG----------IYGEA-LAMHERRLNP----------ESYKVMKWRNALRQAANL   141
gi|12056930|gb|AAG48133.1|AF32 EFDVFLSFRGEDT---------RLGFVG-NLYKALTEK-------GFHT--FFREK-LVRGEEIAASPS----VVEKAIQH-SRVFVVVFSQNYAS-STRCLE----ELLSILRFSQDNR----RPVLPVFYYVDPSDVGL-QTG----------MYGEA-LAMHEKRFNS----------ESDKVMKWRKALCEAAAL   143
   gi|18399256|ref|NP_565466.1| KHDVFISFRSKDT---------RDNFVS-HLCGCLRRK-------RIKT--FLYDE-LPADERYEE------S-LKAIEV-SKISVIVFSENFGD-SRWCLD----EVVAILKCKEKFG----QIVIPVLYHVDPLDIEN-QTG----------SFGDA-FAKRRDKAE----------QLQEWKDSFTEAINL   135
    gi|9758746|dbj|BAB09118.1| SYDVFLSFRGEDT---------RHSIVS-HLYEALTSR-------GIAT--FKDDKRLELGDHISE------ELQRAIEG-SDFVVVVLSENYPT-SRWCLM----ELQSIMELQ-MEG----RLGVFPVFYRVEPSAVRY-QLG----------SFD---LEGYQRDPQMA----------DMVPKWRQALKLIADL   138
   gi|15242570|ref|NP_198826.1| SYDVFLSFRGEDT---------RHSIVS-HLYEALTSR-------GIAT--FKDDKRLELGDHISE------ELQRAIEG-SDFVVVVLSENYPT-SRWCLM----ELQSIMELQ-MEG----RLGVFPVFYRVEPSAVRY-QLG----------SFD---LEGYQRDPQMA----------DMVPKWRQALKLIADL   138
   gi|15220795|ref|NP_173203.1| KYDVFLSFRGEDT---------RKTIVS-HLYAALDSR-------GIVT--FKDDQRLEIGDHISD------ELHRALGS-SSFAVVVLSENYAT-SRWCLL----ELQLIMELM-KEG----RLEVFPIFYGVDPSVVRH-QLG----------SFS---LVKYQGLEMV----------DKVLRWREALNLIANL   137
gi|8778469|gb|AAF79477.1|AC022 KYDVFLSFRGEDT---------RKTIVS-HLYAALDSR-------GIVT--FKDDQRLEIGDHISD------ELHRALGS-SSFAVVVLSENYAT-SRWCLL----ELQLIMELM-KEG----RLEVFPIFYGVDPSVVRH-QLG----------SFS---LVKYQGLEMV----------DKVLRWREALNLIANL   137
   gi|15239700|ref|NP_199688.1| NYDVFLSFRGEDT---------RRTIVS-HLYAALGAK-------GIIT--FKDDQDLEVGDHISS------HLRRAIEG-SKFAVVVLSERYTT-SRWCLM----ELQLIMELY-NLG----KLKVLPLFYEVDPSDVRH-QRG----------SFG---LERYQGPEFA----------DIVQRWRVALCMVANL   137
   gi|15218608|ref|NP_177427.1| HYDVFLSFRGVDT---------RQTIVS-HLYVALRNN-------GVLT--FKDDRKLEIGDTIAD------GLVKAIQT-SWFAVVILSENYAT-STWCLE----ELRLIMQLH-SEE----QIKVLPIFYGVKPSDVRY-QEG----------SFATA-FQRYEADPEME----------EKVSKWRRALTQVANL   140
gi|5903073|gb|AAD55631.1|AC008 HYDVFLSFRGVDT---------RQTIVS-HLYVALRNN-------GVLT--FKDDRKLEIGDTIAD------GLVKAIQT-SWFAVVILSENYAT-STWCLE----ELRLIMQLH-SEE----QIKVLPIFYGVKPSDVRY-QEG----------SFATA-FQSVDEADMIA----------------------   124
   gi|15233862|ref|NP_192681.1| EYDVFLSFRGADT---------RNNIVS-YLHKALVDV-------GIRT--FKDDKELEEGDIISE------KLVNAIQT-SWFAVVVLSEKYVT-SSWCLE----ELRHIMELS-IQD----DIIVVPIFYKVEPSDVRY-QKN----------SFEVK-LQHYRDP----------EKILKWKGALTQVGNM   136
   gi|15218618|ref|NP_177429.1| KYDVFLSFRGEDT---------RKNIVS-HLHKQLVDK-------GVVT--FKDDKKLELGDSISE------EISRAIQN-STYALVILSENYAS-SSWCLD----ELRMVMDLH-LKN----KIKVVPIFYGVDPSHVRH-QTG----------SFT---FDKY-QDSKMP----------NKVTTWREALTQIASL   137
gi|5903075|gb|AAD55633.1|AC008 KYDVFLSFRGEDT---------RKNIVS-HLHKQLVDK-------GVVT--FKDDKKLELGDSISE------EISRAIQN-STYALVILSENYAS-SSWCLD----ELRMVMDLH-LKN----KIKVVPIFYGVDPSHVRH-QTG----------SFT---FDKY-QDSKMP----------NKVTTWREALTQIASL   137
   gi|15218621|ref|NP_177432.1| KFDVFLSFRGKDT---------RKNFVS-FLYKALVSK-------GIRT--FKDDEELERGRPIPP------ELRQAIKG-SRIAVVVVSVTYPA-SSWCLE----ELREILKLE-KLG----LLTVIPIFYEINPSDVRR-QSG----------VVSKQ-FKKHEKRQSR----------ERVKSWREALTKLASL   139
gi|5903078|gb|AAD55636.1|AC008 KFDVFLSFRGKDT---------RKNFVS-FLYKALVSK-------GIRT--FKDDEELERGRPIPP------ELRQAIKG-SRIAVVVVSVTYPA-SSWCLE----ELREILKLE-KLG----LLTVIPIFYEINPSDVRR-QSG----------VVSKQ-FKKHEKRQSR----------ERVKSWREALTKLASL   139
   gi|15218632|ref|NP_177437.1| KYDVFLSFRGVDT---------RNNFIS-FLYKEFVRR-------KIRT--FKDDKELEGNGRISP------ELKRAIEE-SRFAVVVVSVNYAA-SPWCLD----ELVKIMDFE-NKG----SITVMPIFYGVDPCHLRR-QIG----------DVAEQ-FKKHEAREEDH----------EKVASWRRALTSLASI   140
   gi|15218627|ref|NP_177435.1| KYDVFLSFRGLDT---------RNNFIS-FLYKELVRR-------KIRT--FKDDKELEGNGRISP------ELKRAIEE-SRFAVVVVSVNYAA-SPWCLD----ELVKIMDFE-NKG----SITVMPIFYGVDPCHLRR-QIG----------DVAEQ-FKKHEAREEDH----------EKVASWRRALTSLASI   140
   gi|15219332|ref|NP_177438.1| KFDVFLSFRGLDT---------RRSFIS-FLYKELIRR-------NIRT--FKDDKELKNGRRITP------ELIRAIEG-SRFAVVVVSVNYAA-SRWCLE----ELVKIMDIQ-KNG----SLKVMPIFYGVDPCHVRR-QIG----------EVAEQ-FKKHEQREDH----------EKVLSWRQALTNLASI   139
   gi|15218623|ref|NP_177433.1| NYDVFLSFRGPDT---------RRKFIS-FLYKELVGR-------DIRT--FKDDKELENGQMISP------ELILAIED-SRFAVVVVSVNYAA-SSWCLD----ELVKIMDIQKNKG----SITVMPIFYGVNPCHLRR-QIG----------DVAEQ-FKKHEAREKDL----------EKVLKWRQALAALADI   141
   gi|15218624|ref|NP_177434.1| KYDVFLSFRGHDT---------RQNFIS-FLYKELVRR-------SIRT--FKDDKELENGQRISP------ELKRTIEV-SRFAVVVVSETYAA-SSWCLD----ELVTIMDFE-KKG----SITVMPIFYGVEPNHVRW-QTG----------VLAEQ-FKKHGSREDH----------EKVLKWRQALTNFAQL   139
gi|20466364|gb|AAM20499.1| KYDVFLSFRGHDT---------RQNFIS-FLYKELVRR-------SIRT--FKDDKELENGQRISP------ELKRTIEV-SRFAVVVVSETYAA-SSWCLD----ELVTIMDFE-KKG----FITVMPIFYGVEPNHVRW-QTG----------VLAEQ-FKKHGSREDH----------EKVLKWRQALTNFAQL   139
   gi|15218629|ref|NP_177436.1| KYDVFLSFRGHDT---------RHNFIS-FLYKELVRR-------SIRT--FKDDKELENGQRISP------ELKSPIEV-SRFAVVVVSENYAA-SSWCLD----ELVTIMDFE-KKG----SITVMPIFYGVEPNHVRW-QTG----------VLAEQ-FKKHASREDP----------EKVLKWRQALTNFAQL   139
gi|6013389|gb|AAF01328.1|AF188 KYDVFLSFRGHDT---------RHNFIS-FLYKELVRR-------SIRT--FKDDKELENGQRISP------ELKSPIEV-SRFAVVVVSENYAA-SSWCLD----ELVTIMDFE-KKG----SITVMPIFYGVEPNHVRW-QTG----------VLAEQ-FKKHARVEDP----------EKVLKWRQALTNFAQL   139
   gi|15220798|ref|NP_173205.1| KFDVFLSFRGKDT---------RRTIS-FLYKELIEM-------GIRT--FKDDVELQSGRRIAS------DLLAAIEN-SRIAVVIISKNYSA-SPWCLQ----ELVMIMDVE-KKG----SIIVMPIFYYNVEPAHVRR-QIE----------QVAKQ-FRKHEGRENY----------ETVVSWRQALTNLASI   139
8778463|gb|AAF79471.1|AC022 KFDVFL
```

```
gi|15225194|ref|NP_180773.1| GPQVFISFRGKEL---------RKGFIS-FLVPALKKK-------NINV--FIDEHE-VRGKDLI-------SLFRRIGE-SKIALVIFSEGYIE-SKWCLD----ELVQIKKCVDQK----KIIAIPIFYKLDPAVVKG-LKG----------KFGDK-FRDLIERYHHEP----------ERYQKWIEALTSVSRT-   139
gi|15242301|ref|NP_199320.1| GPQVFINFRGKDL---------RNGFLS-FLEPAMREA-------NINV--FIDKDE-VVGTDLV-------NLFVRIQE-SRVAVVIFSKDYIS-SEWCLD----ELAEIKDCINQG----GLNAIPIFYKLAPSSVLE-LKG----------GFGDI-FRVLKEKYKNDP----------ERTQKWQEALESIPKL-   139
gi|15242302|ref|NP_199321.1| GPQVFICFRGADV---------RKHFIS-FLVPALREA-------NINV--FIDENE-FLGSEMA-------NLLTRIEE-SELALVIFSVDFTR-SHRCLN----ELAKIKERKDQG----RLIVIPIFYKWKPSAVKF-LEG----------KFGDN-FRALERNNRHMLP----------ITQKWKEALESIPGS-   139
gi|15242337|ref|NP_199335.1| KEQVFINFRGDQL---------RNNFVG-YLVDALRRS-------EINV--FIDNQE-QRGEDLN-------TLFKRIED-SGIAIVVFSSRYTE-SKWCLE----ELVKIKERVHQG----LLKVLPIFYKWTPTNVKR-PKG----------EFGDH-FRDKEYMYESDEP----------MIKRWKEAIVFISHR-   139
gi|10177889|dbj|BAB11221.1| QDQVFINFRGVEL---------RKNFVS-HLEKGLKRK-------GINA--FIDTDE-EMGQELS-------VLLERIEG-SRIALAIFSPRYTE-SKWCLK----ELAKMKERTEQK----ELVVIPIFYKVQPVTVKE-LKG----------DFGDK-FRELVKSTD----------KKTKKEWKEALQYVPFL-   137
gi|15238668|ref|NP_197290.1| QDQVFINFRGVEL---------RKNFVS-HLEKGLKRK-------GINA--FIDTDE-EMGQELS-------VLLERIEG-SRIALAIFSPRYTE-SKWCLK----ELAKMKERTEQK----ELVVIPIFYKVQPVTVKE-LKG----------DFGDK-FRELVKSTD----------KKTKKEWKEALQYVPFL-   137
gi|15242338|ref|NP_199336.1| EPQVFINFRGDEL---------RKTFIS-HLHKRLQRD-------GINA--FIDSDE-AVGEELK-------NLFKRIEN-SEIALAVLSSRYTE-SHWCLQ----ELVKMMECSMKGEGCNKKLLVIPIFYKLKTDTVKE-LDG----------FGDRN-LWDLWRKPGCGRD----------RDSRIVKWNEALKYFLSR-   147
gi|15230525|ref|NP_190725.1| QHQVFVNFRGEEL---------RNSFVS-HLRSALVRH-------GVNI--FIDTNE-EKGKPLH-------VFFQRIEE-SRIALAIFSVRYTE-SKWCLN----ELVKMKECMDKG----KLLIIPIFYKVKAYEVRY-QKG----------RFGCV-FKNLRNV-DVHK----------KNQWSEALSSVADR-   136
gi|15235064|ref|NP_193688.1| QHQVFLNFRGDEL---------RNNFVS-HLDKALRGK-------QINV--FIDEAV-EKGENLD-------NLFKEIEK-SRIALAIISQKYTE-SKWCLN----ELVKMKELE--G----KLVTIPIFYNVEPATVRY-QKE----------AFGAA-LTKTQENDSDGQ----------MKKWKEALTYVSLL-   135
gi|11357255|pir||T51141 QHQVFINFRGADL---------RRRFVS-HLVTALKLN-------NINV--FIDDYE-DRGQPLD-------VLLKRIEE-SKIVLAIFSGNYTE-SVWCVR----ELEKIKDCTDEG----TLVAIPIFYKLEPSTVRD-LKG----------KFGDR-FRSMAKGDERKK----------KWKEAFNLIPNI-   135
gi|15242354|ref|NP_199338.1| QHQVFINFRGADL---------RRRFVS-HLVTALKLN-------NINV--FIDDYE-DRGQPLD-------VLLKRIEE-SKIVLAIFSGNYTE-SVWCVR----ELEKIKDCTDEG----TLVAIPIFYKLEPSTVRD-LKG----------KFGDR-FRSMAKGDERKK----------KWKEAFNLIPNI-   135
gi|5823587|emb|CAB53785.1| QHQVFINFRGADL---------RRRFVS-HLVTALKLN-------NINV--FIDDYE-DRGQPLD-------VLLKRIEE-SKIVLAIFSGNYTE-SVWCVR----ELEKIKDCTDEG----TLVAIPIFYKLEPSTVRD-LKG----------KFGDR-FRSMAKGDERKK----------KWKEAFNLIPNI-   135
gi|15242300|ref|NP_199319.1| QHQVFINFRGEDL---------RLGFVS-HLVEALEND-------NIKV--FIDNYA-DKGEPLE-------TLLTKIHD-SKIALAIFSGKYTE-SWCLR----ELAMIKDCVKEG----KLVAIPIFYKVRPGVRG-VRG----------FGDRN-FRDLEERDVIKK----------KEWKQALKWIPGL-   136
gi|15234324|ref|NP_195338.1| QHQVFLNFRGKQL---------RNGFVS-HLEKALRRD-------GINV--FIDRNE-TKGRDLS-------NLFSRIQE-SRIALAIFSSMYTE-SYWCLD----ELVKIKDCVDLG----TLVVIPIFYMVDTDDVKN-LKG----------AFGYI-FWKLAKTCNGEK----------LDKWKQALKDVPKK-   137
gi|15235225|ref|NP_193725.1| RPQVFVSFRGKEL---------RHGFVS-HVVKALRIA-------GVNV--FIDSNE-MKGRDLQ-------NLFKRIEN-SKMALVIFSDRFSE-SDWCLN----ELVKIDDCVKEG----KLTVIPVFYRVNTDDVKN-FKG----------KFGSC-FIETVQRQSPKEEPM----------AERWVNSVKSISSK-   140
gi|15241617|ref|NP_199305.1| SDQVFINFRGDEL---------REIFVN-HLELQLRNA-------GINV--FIDTKE-QKGRRLQ-------YLFTRIKK-SKIALAIFSKRYCE-SDWCLD----ELVTHNEQMKEK----KLVVIPIFYNVRSDDVKR-AANPDGEGNLDG---ESSLP-FKQLKQNHAGEPER----------VEGWERALRSVTKR-   148
gi|15227595|ref|NP_178429.1| PTQVFLNYRGEQL---------RRSFVS-HLIDAFERN-------EINF--FVDKYE-QRGKDLK-------NLFLRIQE-SKIALAIFSTRYTE-SSWCMD----ELVKIKKLADKR----KLHVIPIFYKVKVEDVRK-QTG----------EFGDN-FWTLAKVSS----------GDQIKKWKEALECIPNK-   137
gi|15227520|ref|NP_178403.1| PTQVFLNYRGEQL---------RRSFVS-HLIDAFERN-------EINF--FVDKYE-QRGKDLK-------NLFLRIQE-SKIALAIFSTRYTE-SSWCLD----ELVKIKKLADKK----KLHVIPIFYKVKVEDVRK-QTG----------EFGDN-FWTLAKVSS----------GDQIKKWKEALECIPNK-   137
gi|15217793|ref|NP_176094.1| FHRVFLSFRGSDV---------RYSFVS-HLIDAFERH-------GILC--FVDKDE-LRGKTMT-------NLFVRIKE-SKIALVIFSSRYAE-SRFCMD----ELVKMKKRADKG----KLQVIPIFYKVRARDVRG-QTG----------EFGIT-FWALARTSR----------GQIMEWKEALECISNK-   137
gi|15220183|ref|NP_175170.1| VPKVFLSFRGEEI---------RHGFIS-HLADALERY-------GIMF--IIDKDE-QRGNDLT-------SLLRRIKE-SKVALVIFSSRFAE-SRFCMD----ELVKMKECVDER----KLLVIPIFYKVRARDVSG-RTG----------DFGKK-FWALAQKSR----------GCQIKEWMEALECISNK-   137
gi|9993347|gb|AAG11420.1|AC015 VPKVFLSFRGEEI---------RHGFIS-HLADALERY-------GIMF--IIDKDE-QRGNDLT-------SLLRRIKE-SKVALVIFSSRFAE-SRFCMD----ELVKMKECVDER----KLLVIPIFYKVRARDVSG-RTG----------DFGKK-FWALAQKSR----------GCQIKEWMEALECISNK-   137
gi|7488089|pir||T02283 QDQVFINFRGEEI---------RYSFLS-HLAAAFELH-------GINF--FIDKDE-QKGKDLK-------HLFKRIKQ-SQIALAIFSERYAE-SPWCLN----ELAKMKKLAKKG----KLNVVPIFYKVEVNDVRH-QEG----------KFGSN-FWKLAKISS----------GDEIKKWKEALEFFSNK-   137
gi|15219050|ref|NP_176236.1| QDQVFINFRGEEI---------RYSFLS-HLAAAFELH-------GINF--FIDKDE-QKGKDLK-------HLFKRIKQ-SQIALAIFSERYAE-SPWCLN----ELAKMKKLAKKG----KLNVVPIFYKVEVNDVRH-QEG----------KFGSN-FWKLAKISS----------GDEIKKWKEALEFFSNK-   137
gi|15223671|ref|NP_176093.1| QPRVFINFRGEDI---------RYGFIS-HLVAAFEVH-------GIYF--FIDYKE-QRGNDLT-------YLFKRIEE-SKIVLAIFSGKYAQ-SKWCLN----ELATVKKLAEKR----KLVVIPIFYKVKVGDVRR-QKG----------EFGRN-FWNLARISS----------GEEIKQWKEALEFVSHK-   137
gi|15223641|ref|NP_176080.1| VNQVFINFRGKDI---------RHGFVS-HLKDALKRK-------NINF--FIDTHE-QKGRDLN-------HLFKRIEE-ATIALVILSPRYGE-SKWCLE----ELTTIMDQEEKG----QMIVIPIFYKVKRTEDVEK-QTG----------EFGHM-FWSCDEEAS----------LEEMEKWQVALKAVCNK-   137
gi|15241609|ref|NP_199300.1| SWQVFINFRGADL---------RNGFIS-HLAGALTSA-------GITY--YIDTEE-VPSEDLT-------VLFKRIEE-SEIALSIFSSNYAE-SKWCLD----ELVKIMEQVKEK----KLRIMPVFFNVKPEEVRE-QNG----------EFGLK-LYGEGK-SKRPN----------IPNWENALRSVPSK-   136
gi|15233343|ref|NP_192873.1| QHQVFVSFRGSDV---------RYNFFS-FLKDALIKN-------GINV--VIDEDA-PRGKPIDE-------NLLKLIKD-SRIAVVIFSENYPE-STWCLD----ELVEIEKQMDLK----MLDSCPIFFEVETCHVKL-QVA--------RSTFNYN-LLQLEHDERKKARQISKKAWEDAEKR-----FEGWRKALISVASR-   154
gi|15236520|ref|NP_194082.1| KPQVFISFRGKAQ---------RKTLVS-FIKSKLEEIS-------EINV--FMDEYE-IRGRPITT-------LFERIRE-SSIALVIFSDKYPE-SRWCLD----ELVEIKKQMETG----SIVPFPIFYKVKAESVKN-QTG----------HFRNV-LLKTEEDVRKKVDRSNIRSILETEDM-----IWGWRQALVSVGGR-   152
gi|15235058|ref|NP_193686.1| EFDVFVSFRGADT---------RHDFTS-HLWKYLRGK-------GIDV--FSDAKL-RGGEYTSL-------LFDRIEQ-SKMSIVVFSEDYAN-SWWCLE----EVGKIMQRRKEF----NHGVLPIFYKVKSKSDVSN-QTG----------SFEAV-FQSPTKIFNGDEQK----------IEELKVALKTASNI-   139
gi|15234388|ref|NP_192938.1| EFDVFLSFRGFDT---------RNNFTG-HLQKALRLR-------GIDS--FIDDRL-RRGDNLTA-------LFDRIEK-SKIAIIVFSTNYAN-SAWCLR----ELVKILECRNSN----QQLVVPIFYKVDKSDVEK-QRN----------SFAVP-FKLPELTFPGVT----------PEEISSWKAALASASNI-   140
gi|15235926|ref|NP_193424.1| RYDVFPSFSGVDV---------RKTFLS-NLLEAFDRR-------SINT--FMDHGI-ERSRTIAP------ELISAIRE-ARISIVIFSKNYAS-STWCLD----ELVEIHNRLNDWG----QLVISVFYDVDPSEVRK-QTG----------EFGDV-FKKTCEDKEEDQ----------KQRWMQALVDITNI-   138
gi|7488166|pir||A71437 RYDVFPSFSGVDV---------RKTFLS-NLLEAFDRR-------SINT--FMDHGI-ERSRTIAP------ELISAIRE-ARISIVIFSKNYAS-STWCLD----ELVEIHNRLNDWG----QLVISVFYDVDPSEVRK-QTG----------EFGDV-FKKTCEDKEEDQ----------KQRWMQALVDITNI-   138
gi|15235931|ref|NP_193428.1| RYDVFPSFSGVDV---------RKTFLS-HLIEALDGK-------SINT--FIDHGI-ERSRTIAP------ELISAIRE-ARISIVIFSKNYAS-STWCLN----ELVEIHKCFNDLG----QMVIPVFYDVDPSEVRK-QTG----------EFGKV-FEKTCEVSKDKQPG----------DQKQRWVQALTDIANI-   142
gi|5302807|emb|CAB46048.1| RYDVFPSFSGVDV---------RKTFLS-HLIEALDGK-------SINT--FIDHGI-ERSRTIAP------ELISAIRE-ARISIVIFSKNYAS-STWCLN----ELVEIHKCFNDLG----QMVIPVFYDVDPSEVRK-QTG----------EFGKV-FEKTCEVSKDKQPG----------DQKQRWVQALTDIANI-   142
gi|7488171|pir||E71437 RYDVFPSFSGVDV---------RKTFLS-HLIEALDGK-------SINT--FIDHGI-ERSRTIAP------ELISAIRE-ARISIVIFSKNYAS-STWCLN----ELVEIHKCFNDLG----QMVIPVFYDVDPSEVRK-QTG----------EFGKV-FEKTCEVSKDKQPG----------DQKQRWVQALTDIANI-   142
gi|6449046|gb|AAF08790.1| RYDVFPSFSGVDV---------RKTFLS-HLLKALDGK-------SINT--FIDHGI-ERSRTIAP------ELISAIRE-ARISIVIFSKNYAS-STWCLN----ELVEIHKCFNDLG----QMVIPVFYDVDPSEVRK-QTG----------EFGKV-FEKTCEVSKDKQPG----------DQKQRWVQALTDIANI-   142
gi|7488168|pir||C71436 RYDVFPSFSGVDV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ALITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCYKKG----EQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   138
gi|15235904|ref|NP_193420.1| RYDVFPSFSGVDV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ALITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCYKKG----EQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   138
gi|7485160|pir||F71436 RYDVFPSFSGVDV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ALITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCYKKG----EQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   138
gi|21539521|gb|AAM53313.1| RYDVFPSFSGVDV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ALITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCYKKG----EQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   138
gi|15235932|ref|NP_193429.1| RYDVFPSFSGVDV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ELITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCHKDKDL--DQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   140
gi|7488170|pir||D71437 ------PVS--DV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ELITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCHKDKDL--DQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   132
gi|15235930|ref|NP_193427.1| RYDVFPSFSGVDV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ELITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCHKDKDL--DQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   140
gi|7488173|pir||G71437 RYDVFPSFSGVDV---------RKTFLS-HLIEALDRR-------SINT--FMDHGI-VRSCIIAD------ELITAIRE-ARISIVIFSENYAS-STWCLN----ELVEIHKCHKDKDL--DQMVIPVFYGVDPSHVRK-QIG----------GFGDV-FKKTCEDKP----------EDQKQRWVKALTDISNL-   140
gi|15235928|ref|NP_193425.1| GSDIFPSFSGEDV---------RKNFLS-HLLKQLNRR-------SINT--FMDHVI-ERSCIIAD------ALISAIRE-ARISIVIFSKNYAA-STWCLN----ELVEIDNCSKYFG----QKVIPVFYDVDPSHVRK-QIG----------EFGKV-FKKTCEDKP----------ADQKQRWVKALTDISNI-   138
gi|7488167|pir||B71437 GSDIFPSFSGEDV---------RKNFLS-HLLKQLNRR-------SINT--FMDHVI-ERSCIIAD------ALISAIRE-ARISIVIFSKNYAA-STWCLN----ELVEIDNCSKYFG----QKVIPVFYDVDPSHVRK-QIG----------EFGKV-FKKTCEDKP----------ADQKQRWVKALTDISNI-   138
gi|7485210|pir||H71436 RYDVFPSFRGEDV---------RDSFLS-HLLKELRGK-------AI-I--FIDDEI-ERSRSIGP------ELLSAIKE-SRIAIVIFSKNYAS-STWCLN----ELVEIHKCYTNLN----QMVIPIFFHVDASEVKK-QTG----------EFGKV-FEETCKAKS----------EDEKQSWKQALAAVAVM-   137
gi|15235924|ref|NP_193422.1| RYDVFPSFRGEDV---------RDSFLS-HLLKELRGK-------AI-I--FIDDEI-ERSRSIGP------ELLSAIKE-SRIAIVIFSKNYAS-STWCLN----ELVEIHKCYTNLN----QMVIPIFFHVDASEVKK-QTG----------EFGKV-FEETCKAKS----------EDEKQSWKQALAAVAVM-   137
gi|15235054|ref|NP_193685.1| RYDVFPSFSKVDV---------RRSFLA-HLLKELDRR-------LINT--FTDHGM-ERNLPIDA------ELLSAIAE-SRISIVIFSKNYAS-STWCLD----ELVEIHTCYKELA----QIVVPVFFNVHPSQVKK-QTG----------EFGKV-FGKTCKGKP----------ENRKLRWMQALAAVANI-   138
gi|15242136|ref|NP_199976.1| TYDVFPSFSGEDV---------RKSFLS-HLLKKLHRK-------SINT--FIDNNI-ERSHAIAP------DLLSAINN-SMISIVVFSKKYAS-STWCLN----ELVEIHKCYKELT----QIVIPIFYEVDPSDVRK-QIG----------EFGEF-EKVTCVGKT----------EDVKQQWIEALEEVASI-   138
gi|15235938|ref|NP_193432.1| SYDVFPNFRGEDV---------RHSLVS-HLRKELDRK-------FINT--FNDNRI-ERSRKITP------ELLLAIEN-SRISLVVFSKKYAS-STWCLD----ELVKIQECYEKLD----QMVIPIFYKVDPSHVRK-QTG----------EFGMV-FGETCKGRT----------ENEKRKWMRALAEVAHL-   138
gi|10944739|emb|CAC14089.1| SYDVFPNFRGEDV---------RHSLVS-HLRKELDRK-------FINT--FNDNRI-ERSRKITP------ELLLAIEN-SRISLVVFSKKYAS-STWCLD----ELVKIQECYEKLD----QMVIPIFYKVDPSHVRK-QTG----------EFGMV-FGETCKGRT----------ENEKRKWMRALAEVAHL-   138
gi|18422680|ref|NP_568664.1| LYDVFLSFRGGDV---------RVTFRS-HFLKEFDRK-------LITA--FRDNEI-ERSHSLWP------DLEQAIKD-SRIAVVVFSKNYAS-SSWCLN----ELLEIVNCNDK-------IIIPVFFYGVDPSQVRY-QIG----------DFGRI-FEKTCKRQT----------EEVKNQWKKALTLVANM-   135
gi|10177586|dbj|BAB10817.1| LYDVFLSFRGGDV---------RVTFRS-HFLKEFDRK-------LITA--FRDNEI-ERSHSLWP------DLEQAIKD-SRIAVVVFSKNYAS-SSWCLN----ELLEIVNCNDK-------IIIPVFFYGVDPSQVRY-QIG----------DFGRI-FEKTCKRQT----------EEVKNQWKKALTLVANM-   135
gi|15237409|ref|NP_199438.1| LYDVFLSFRGGDV---------RVTFRS-HFLKEFDRK-------LITA--FRDNEI-ERSHSLWP------DLEQAIKE-SRIAVVVFSKNYAS-SSWCLN----ELLEIVNCNDK-------IIIPVFFYGVDPSQVRY-QIG----------EFGRI-FEKTCKRQT----------EEVKNQWKKALTHVANM-   135
gi|15237454|ref|NP_199464.1| LYDVFLSFRGKDV---------RVTFRS-HFLKEFDRK-------LISA--FRDNEI-ERSHSLWP------DLEQAIKD-SRIAVVVFSKNYAS-SSWCLN----ELLEIVNCNDK-------IIIPVFFYGVDPSQVRY-QIG----------EFGSI-FEKTCKRQT----------EEVKNQWKKALTDVANM-   135
gi|15237410|ref|NP_199439.1| LYDVFLSFRGGDV---------RVTFRS-HFLKELDRK-------LITA--FRDNEI-ERSHSLWP------DLEQAIKD-SRIAVVIFSKNYAS-SSWCLN----ELLEIVNCNDK-------IVIPVFYGVDPSQVRH-QIG----------DFGKI-FENTCKRQT----------EQVKNQWKKALTDVANM-   136
gi|20466614|gb|AAM20624.1| LYDVFLSFRGEDV---------RVTFRS-HFLKELDRK-------LITA--FRDNEI-ERSHSLWP------DLEQAIKE-SRIAVVVFSKNYAS-SSWCLN----ELLEIVNCNDK-------IVIPVFYHVDPSQVRH-QIG----------DFGKI-FENTCKRQT----------EEVDKNQWKKALTLVANM-   136
gi|12597847|gb|AAG60157.1|AC07 LYDVFLSFRGEDV---------RVTFRS-HFLKELDRK-------LITA--FRDNEI-ERSHSLWP------DLEQAIKE-SRIAVVVFSKNYAS-SSWCLN----ELLEIVNCNDK-------IVIPVFYHVDPSQVRH-QIG----------DFGKI-FENTCKRQT----------EEVDKNQWKKALTLVANM-   136
gi|15222371|ref|NP_174439.1| LYDVFLSFRGEDV---------RVTFRS-HFLKELDRK-------LITA--FRDNEI-ERSHSLWP------DLEQAIKE-SRIAVVVFSKNYAS-SSWCLN----ELLEIVNCNDK-------IVIPVFYHVDPSQVRH-QIG----------DFGKI-FENTCKRQT----------EEVDKNQWKKALTLVANM-   136
gi|15242561|ref|NP_198822.1| VYDVFPSFSGEDV---------RKTFLS-HLQLVLDRK-------LITS--FKDNEI-ERSQSIAP------ELVQGIKD-SRIAIVIFSKNYAS-SSWCLN----ELLEIVSCKEDKG----QLVIPVFYALDPTHVRK-QTG----------DFGMA-FERTCLNKT----------EDEKNLWRVALTHVANI-   138
gi|8843806|dbj|BAA97354.1| VYDVFPSFSGEDV---------RKTFLS-HLQLVLDRK-------LITS--FKDNEI-ERSQSIAP------ELVQGIKD-SRIAIVIFSKNYAS-SSWCLN----ELLEIVSCKEDKG----QLVIPVFYALDPTHVRK-QTG----------DFGMA-FERTCLNKT----------EDEKNLWRVALTHVANI-   138
gi|15233392|ref|NP_192320.1| VLYVFPSFSVEDI---------RQTFLS-HFLKDLDRK-------LIIA--FKDNEI-ERSQSLNP------DLKRPIRD-SRIAVIFSKNYAS-SSWCLN----ELLEIVRCKEDSN---RLVVIPVFYGLDPSHVRK-QIG----------NFGKI-FKKTCQNRT----------EDEINLRRRALIDVANT-   139
gi|15237444|ref|NP_199459.1| SYHVFPSFSGEDV---------RNTFLS-HFLKELDRK-------LIIS--FKDNEI-ERSQSLDP------ELKHGIRN-SRIAVVVFSKTYAS-SSWCLN----ELLEIVKCKKEFG----QLVIPIFYNLDPSHVRK-QTG----------DFGKI-FEKTCRNKT----------VDEKIRWKEALTDVANI-   138
gi|15242937|ref|NP_197661.1| LYDVFPSFSGEDV---------RVTFLS-HFLKEELDRK-------LISV--FKDNDI-QRSQSLDP------ELKLAIRD-SRIAIVVFSKNYAA-SSWCLD----ELLEIVKCKEEFG----QIVIPVFYGLDPCHVRK-QSG----------EFGIV-FENTCQTKT----------DDEIQKWRRALTDVANI-   138
gi|15237438|ref|NP_199457.1| SYDVFPSFSGEDV---------RKTFLS-HFLRELERK-------SIIT--FKDNEM-ERSQSIAP------ELVEAIKD-SRIAVIVFSKNYAS-SSWCLN----ELLEIMRCNKYLG----QQVIPVFYYLDPSHLRK-QSG----------EFGEA-FKKTCQNQT----------EEVKNQWKQALTDVSNI-   138
gi|15236505|ref|NP_192585.1| VYDVFTSFSGEDI---------RVTFLT-HFLKELDRK-------MIIA--FKDNEI-ERGNSIGT------ELIQAIKD-SRIAVVVFSKKYSS-SSWCLN----ELVEIVNCKE-------IVIPVFYDLDPSDVRK-QEG----------EFGES-FKETCKNRT----------DYEIQRWGQALTNVANI-   134
gi|15237452|ref|NP_199463.1| VYDVFPSFSGTDV---------RRNFLS-HLLKGLHK-------SVNS--FRDQNM-ERSQSLDP------MLKQAIRD-SRIAVVVFSKNYAS-SSWCLN----ELLEIVKCKEEFG----QMVIPIFYCLDPSHVRH-QDG----------DFGKN-FEETCGRNT----------EEEKIQWEKALTDVANL-   137
gi|15237446|ref|NP_199460.1| IYDVFLNFRGEDV---------RGTFLN-HFFKELERK-------SIIA--FKDNES-ERSQNLSP------ELTHAIRE-SRITVVVFSKNYSS-STWCLN----ELLEIVCKEEFG----QMVIPIFYGLDPSHVRK-QTG----------EFGKN-FEKTCRNET----------EACVYQWRRALCDVSNF-   138
gi|9954759|gb|AAG09110.1|AC009 RYNVFTSFHGPDV---------RIKFLS-HLRQQFIYN-------GITM--FDDNGI-ERSQIIAP------ALKKAIGE-SRIAILLLSKNYAS-SSWSLD----ELLEILKCKEDIG----QIVMTVFYEVDPSDVRN-QTG----------DFGIA-FKETCAHKT----------EEERQKWTQALTYVGNI-   138
gi|15223551|ref|NP_176044.1| RYNVFTSFHGPDV---------RIKFLS-HLRQQFIYN-------GITM--FDDNGI-ERSQIIAP------ALKKAIGE-SRIAILLLSKNYAS-SSWSLD----ELLEILKCKEDIG----QIVMTVFYEVDPSDVRN-QTG----------DFGIA-FKETCAHKT----------EEERQKWTQALTYVGNI-   138
gi|15223549|ref|NP_176043.1| RYNVFTSFHGPDV---------RIKFLS-HLRQQFVYN-------GITM--FDDNGI-ERSQIIAP------ALKKAIGE-SRVAIVLLSKNYAS-SSWCLD----ELLEILKCKEYIG----QIVMTVFYEVDPSHVRK-QTG----------DFGIA-FKETCAHKT----------EEERSKWSQALTYVGNI-   138
gi|15223555|ref|NP_176047.1| RYNVFTSFHGPDV---------RKTFLS-HLRKQFNYN-------GITM--FDDQRI-ERSQIIAP------ALTEAIRE-SRIAIVLLSKNYAS-SSWCLD----ELLEILDCKEQLG----QIVMTVFYGVHPSDVRK-QTG----------DFGIA-FNETCARKT----------EEQRQKWSQALTYVGNI-   138
gi|15218929|ref|NP_176783.1| RYMTFTSFHGPDV---------RNTFLS-HLRKQFNTN-------GITM--FDDQRM-ERSQTLAP------TLTQAIRE-SKIYIVLLSKNYAS-SSWCLD----ELLEILNCKEKRG----QRVMTIFYGVNPSDVRK-QTG----------EFGIA-FNETCARKT----------EEERRKWSHALTCVGNI-   138
gi|21618001|gb|AAM67051.1| RYMTFTSFHGPDV---------RNTFLS-HLRKQFNTN-------GITM--FDDQRM-ERSQTLAP------TLTQAIRE-SKIYIVLLSKNYAS-SSWCLD----ELLEILNCKEKRG----QRVMTIFYGVNPSDVRK-QTG----------EFGIA-FNETCARKT----------EEERRKWSHALTCVSNI-   138
gi|15222612|ref|NP_176590.1| RYRVFTSFHGSDV---------RTSFLS-HFRKQFNNN-------GITM--FDDQRI-LRGETISP------ALTQAIRE-SRISIVLLSKNYAS-SGWCLD----ELLEILKCKDDMG----QIVMTVFYGVDPSDVRK-QTG----------EFGIA-FNETCACRT----------EEERQKWSQALNYVGNI-   138
gi|6692110|gb|AAF24575.1|AC007 RYRVFTSFHGSDV---------RTSFLS-HFRKQFNNN-------GITM--FDDQRI-LRGETISP------ALTQAIRE-SRISIVLLSKNYAS-SGWCLD----ELLEILKCKDDMG----QIVMTVFYGVDPSDVRK-QTG----------EFGIA-FNETCACRT----------EEERQKWSQALNYVGNI-   138
gi|15227315|ref|NP_179279.1| NYRVFASFHGPDV---------RKSFLS-HFRKQFICN-------GITM--FDDQKI-VRSQTIAP------SLTQGIRE-SKISIVILSKNYAS-STWCLN----ELLEILKCREDIG----QIVMTVFYGVDPSDVRK-QTG----------EFGTV-FNKTCARRT----------EKERRNWSQALNYVGNI-   138
gi|15222528|ref|NP_176561.1| RYRVFTSFHGPDV---------RKTFLS-HLRKQFICN-------GITM--FDDQAI-ERGQTISP------ELTRGIRE-SRISIVVLSKNYAS-SSWCLD----ELLEILKCKEDIG----QIVMTVFYGVDPSDVRK-QTG----------DILKV-FKKTCSGKT----------EEKRRRWSQALNDVGNI-   138
gi|15222527|ref|NP_176560.1| RYRVFTSFHGPDV---------RKTVLS-HLRKQFICN-------GITM--FDDQRI-ERGQTISP------ELTRGIRE-SRISIVVLSKNYAS-SSWCLD----ELLEILKCKEDIG----QIVMTVFYGVDPSDVRK-QTG----------EGIR-FSETWARKT----------EEEKQKWSQALNDVGNI-   138
gi|15242954|ref|NP_200620.1| RYRVFTNFHGPDV---------RKTFLS-HLRKQFSYN-------GISM--FNDQSI-ERSQTIVP------ALTGAIKE-SRISIVVLSKNYAS-SRWCLD----ELLEILKCREDIG----QIVMTVFYGVDPSDVRK-QTG----------EFGIA-FNKTCEGKT----------NEETQKWSKALNDVGNI-   138
gi|20260632|gb|AAM13214.1| --NVFPSFHGGDI---------RKTFLS-HLRKQFNSN-------GITM--FDDQGI-ERSQTIAP------ALIQAIRE-SRISIVVLSKNYAS-SSWCLN----ELVEILKCK-D-------VVMPIFYEVDPSDVRK-QTG----------DFGKA-FKNSCKSKT----------KEERQRWIQALIFVGNI-   132
gi|15241561|ref|NP_198701.1| RYNVFPSFHGGDI---------RKTFLS-HLRKQFNSN-------GITM--FDDQGI-ERSQTIAP------ALIQAIRE-SRISIVVLSKNYAS-SSWCLN----ELVEILKCK-D-------VVMPIFYEVDPSDVRK-QTG----------DFGKA-FKNSCKSKT----------KEERQRWIQALIFVGNI-   134
gi|15809907|gb|AAL06881.1| KYIVFPSFHGPDV---------RKTLLS-HMRKQFDFN-------GITM--FDDQGI-ERSEEIAP------SLKKAIKE-SRISIVILSKKYAS-SSWCLD----ELVDILKRKKAMK----QIVMTVFYGVEPFGVRN-QTG----------EFGIA-FNETCARKT----------DEERQKWSKALNEVANI-   138
gi|15222556|ref|NP_176571.1| RFNVFSSFHGPNV---------RKTLLS-HMRKQFNFN-------GITM--FDDQGI-ERSEEIVP------SLKKAIKE-SRISIVILSKYAL-SRWCLD----ELVEILKCKEVMG----HIVMTIFYGVEPSDVRK-QTG----------EFGFH-FNETCAHRT----------DEDKQNWSKALKDVGNI-   138
gi|15222558|ref|NP_176572.1| KFNVFASFHGPDV---------RKTLLS-HIRLQFNRN-------GITM--FDDQKI-VRSATIGP------SLMEAIKE-SRISIVILSKKYAS-SSWCLD----ELVEILECKKAMG----QIVMTIFYGVDPSDVRK-QIG----------KFGIA-FNETCARKT----------EEERQKWSKALNQVSNI-   138
gi|15222529|ref|NP_176562.1| KFKVFSSFHGPDV---------RKTLLS-NLREHFQGK-------GITM--FDDEKI-KRGGDLSP------SLKRAIKT-SKISIVILSQKYAS-SSWCLD----ELLEIMKRKKAMK----QIVMTVFYGVEPSDVRK-QTG----------DFGIA-FNKTCVNKT----------DKERKEWSKALTDVSNI-   138
gi|15237516|ref|NP_198907.1| RYHVFSSFHGPDV---------RSGFLS-HLMNHFESK-------GITP--FKDQEI-ERGHTIGP------ELIQAIRE-SRVSIVVLSEKYAS-SCWCLD----ELVEILKCKEASG----QVVMTIFYKVDPSDVRK-QRG----------DFGST-FKKTCEGKT----------WIVKQRWIKALEYIATV-   138
gi|15237518|ref|NP_198908.1| RYHVFSSFHGPDV---------RSGFLS-HLMNHFESK-------GITP--FKDQEI-ERGHTIGP------ELIQAIRE-SRVSSIVLSEKYAS-SGWCLD----ELVEILKCKEASG----HAVMTIFYKVDPSDVRK-QWG----------DFGST-FKKTCEGKS----------EEVKQRWSKALAYIATV-   138
gi|15238107|ref|NP_198970.1| RYHVFPSFHGPDV---------RKGFLS-HLHVHFASK-------GITT--FKDQEI-ERGNTIGP------ELVNAIRE-SRVSIVLSKKYAS-SGWCLD----ELVEILKCKEALG----QIVMTIFYDVDPSSVRK-QKG----------DFGST-FMKTCEGKS----------EEVKQRWTKALTHVANI-   138
gi|15238176|ref|NP_198990.1| RYQVFSSFHGPDV---------RKTLLS-HLHSVFASK-------GITT--FKDQKI-DRGQTIGP------ELIQGIRE-ARVSIVVLSKKYAS-SGWCLD----ELVEILKCKEALG----QIVMTIFYEVDPSDVRK-QSG----------VFGEA-FKKTCQGKN----------EEVKIRWRNALAHVATI-   138
gi|15238104|ref|NP_198969.1| KYHVFPSFHGSDV---------RKFLS-HLRFHFASK-------GIVA--FKDQEI-ERGQRIGP------ELVQAIRE-SRVSIVVLSKNYPS-SGWCLD----ELVEILKCKEDQE----QIVMPIFYEIDPSDVRK-QSG----------EFGKT-FGKTCVGKT----------KEVKQRWTNALTEANAI-   138
gi|15230482|ref|NP_190053.1| KHHVFPSFHGADV---------RKTLLS-HILESFRRK-------GIDP--FIDNNI-ERSKSIGH------ELKEAIKE-SKIAIVLLSKNYAS-SSWCLD----ELAEIMKCRELLG----QIVMTIFYEVDPTDIKK-QTG----------EFGKA-FTKTCKGKT----------KEYVERWRKALEDVATI-
```

```
  gi|18396805|ref|NP_566223.1| KHQVFPSFHGADV---------RKSFLS-HIMKEFKSK-------GIDI--FIDKDI-KRGKSIGP------ELIEAIRG-SRVAIVFLSRKYAS-SSWCLN----ELALIMKCRKELG-----LTVMTLFYDLDPTDVRK-QTG----------DFGMA-FKETCKGKT-----------------KDEIGRWRHALEEVAKI   138
   gi|15982830|gb|AAL09762.1| KHQVFPSFHGADV---------RKSFLS-HIMKEFKSK-------GIDI--FIDKDI-KRGKSIGP------ELIEAIRG-SRVAIVFLSRKYAS-SSWCLN----ELALIMKCRKELG-----LTVMTLFYDLDPTDVRK-QTG----------DFGMA-FKETCKGKT-----------------KDEIGRWRHALEEVAKI   138
gi|6721164|gb|AAF26792.1|AC016 KHQVFPSFHGADV---------RKSFLS-HIMKEFKSK-------GIDI--FIDKDI-KRGKSIGP------ELIEAIRG-SRVAIVFLSRKYAS-SSWCLN----ELALIMKCRKELG-----LTVMTLFYDLDPTDVRK-QTG----------DFGMA-FKETCKGKT-----------------KDEIGRWRHALEEVAKI   138
  gi|15238808|ref|NP_197338.1| THQVFPSFRGEDV---------RKGFLS-HIQKEFKSK-------GIVP--FIDDEM-KRGESIGP------GLFQAIRE-SKIAIVLLSKNYAS-SSWCLN----ELVEIMNCREEIG-----QTVMTVFYQVDPSDVRK-QTG----------DFGKA-FKKTCVGKT-----------------QEVKQRWSRALMDVANI   138
  gi|15238791|ref|NP_197336.1| THHVFLSFRGEDV---------RKGFLS-HIQKEFERK-------GIFP--FVDTKM-KRGSSIGP------VLSDAIIV-SKIAIVLLSKNYAS-STWCLN----ELVNIMKCREEFG-----QTVMTVFYEVDPSDVRK-QTG----------DFGIA-FETTCVGKT-----------------EEVKQSWRQALIDVSNI   138
  gi|15241520|ref|NP_199264.1| LHPVFLSFRGEDV---------RKGLLS-HIQKEFQRN-------GITP--FIDNEM-KRGGSIGP------ELLQAIRG-SKIAIILLSRNYGS-SKWCLD----ELVEIMKCREELG-----QTVMTVFYDVDPSDVRK-QKG----------DFGKV-FKKTCVGRP-----------------EEMVQRWKQALTSAANI   138
  gi|18409308|ref|NP_564971.1| THHVFPSFRGDDV---------RRNFLS-HIQKEFRRK-------GITP--FIDNEI-RRGESIGP------ELIKAIRE-SKIAIVLLSRNYAS-SKWCLE----ELVEIMKCKKEFG-----LTVFAIFYEVDPSHVKK-LTG----------EFGAV-FQKTCKGRT-----------------KENIMRWRQAFEEVATI   138
gi|12597786|gb|AAG60098.1|AC07 THHVFPSFRGDDV---------RRNFLS-HIQKEFRRK-------GITP--FIDNEI-RRGESIGP------ELIKAIRE-SKIAIVLLSRNYAS-SKWCLE----ELVEIMKCKKEFG-----LTVFAIFYEVDPSHVKK-LTG----------EFGAV-FQKTCKGRT-----------------KENIMRWRQAFEEVATI   138
  gi|15238999|ref|NP_196686.1| THQVFPSFSGEDV---------RRDFLS-HIQMEFQRM-------GITP--FVDNEI-KRGESIGP------ELLRAIRG-SKIAIILLSRNYAS-SSWCLD----ELVEIMKCREEYG-----QTVMAIFYKVDPSDVKN-LTG----------DFGKV-FRKTCAGKP-----------------KKDIGRWRQAWEKVATV   138
  gi|15229251|ref|NP_187072.1| KYDVFPSFRGEDV---------RKDFLS-HIQKEFQRQ-------GITP--FVDNNI-KRGESIGP------ELIRAIRG-SKIAIILLSRNYAS-SSWCLD----ELVEIIKCKEEMG-----QTVIVIFYKVDPSLVKK-LTG----------DFGKV-FRNTCKGKE-----------------RENIERWREAFKKVATI   138
gi|6227009|gb|AAF06045.1|AC009 THQVFPSFRGEDV---------RRGFLS-HIHKEFQRK-------GITP--FIDNEI-KRGESIGL------EIIHAIRE-SKIAIVLLSRNYAS-SSWCLD----ELVEIMKCKEEFS-----QIVIPIFYRVDPSDVKK-LTG----------NFGNV-FKNNCVGKT-----------------NEVIRKWRQALAKMGTI   138
  gi|15223632|ref|NP_176076.1| DYDVFPSFHGEDV---------RKAFLSQKILKEFGRK-------AINF--FVDHEM-ERGEFIGP------VLKQAIKG-SKIALVLLSKNYAS-SWCCLD----ELVEIMK--KESG-----QTVITIFYEVDPNEVKK-QTG----------DFGKA-FKETCQGKT-----------------EEKVQTWRKALEGVGLA   137
  gi|15238695|ref|NP_197298.1| SYHVFPSFCGEDV---------RRNFLS-HLHKELQHN-------GIDA--FKDGGI-KRSRSIWP------ELKQAIWE-SKIFIVVLSENYAG-SCWCLD----ELVEIMECREVVG-----KTLVPIFYDVDPSSVRK-QTG----------DFGKA-FDKICDVRT-----------------EEERQRWRQALTNVGNI   138
     gi|7487334|pir||T08196 RYDVFPSFRGEDV---------RNNFLS-HLLKEFESK-------GIVT--FRDDHI-KRSHTIGH------ELRAAIRE-SKISVVLFSENYAS-SSWCLD----ELIEIMKCKEEQG-----LKVMPVFYKVDPSDIRK-QTG----------KFGMS-FLETCCGKT-----------------EERQHNWRRALTDAANI   138
  gi|15237080|ref|NP_192855.1| RYDVFPSFRGEDV---------RNNFLS-HLLKEFESK-------GIVT--FRDDHI-KRSHTIGH------ELRAAIRE-SKISVVLFSENYAS-SSWCLD----ELIEIMKCKEEQG-----LKVMPVFYKVDPSDIRK-QTG----------KFGMS-FLETCCGKT-----------------EERQHNWRRALTDAANI   138
  gi|15239799|ref|NP_199725.1| KYDVFPSFRGEDV---------RGNFLS-HLMKEFESK-------GIVT--FKDDLI-ERSQTIGL------ELKEAVRQ-SKIFVVIFSKNYAS-SSWCLD----ELVEILKCKEER------RLIPIFYKVNPSDVRN-QTG----------KFGRG-FRETCEGKN-----------------DETQNKWKAALTEAANI   136
  gi|15238807|ref|NP_197337.1| RHHVFPSFSGKDV---------RRTFLS-HLLKEFRRK-------GIRT--FIDNDI-KRSQMISS------ELMRAIRE-SRIAVVVLSRTYAS-SSWCLN----ELVEIKKVS----------QMIMPVFYEVDPSDVRK-RTG----------EFGKP-FEEACERPEQ-----------------EVDKQKWREALVYIANI   135
  gi|15227360|ref|NP_179297.1| --------KSGEDV---------PRYFVS-YLIKKLKWI-------GITV--VYSGFM-GGKSMSRP------EVTQAIEE-SSISVVILSKDYVS-SKCLD----ELVEIIRWREELGN---NRVMPIYYEMGTSDVMK-QAK----------TIGNR-LVETYLGKV-----------------EKPVELRWMRALAYIVNI   133
  gi|21244022|ref|NP_643604.1| LPSVFFSYSHADEG--------LRDQLEKQ-LA-MLKHQ-------GIIET--WHDRR-IVAGQEIDK------TIDGHINS-DDIILLISPDFLA-SSYCYDR---EWTRALERHDSG-----DATVIPVILRACEWHHA-----------PFGKI-MATPTDGKP-----------------VKQWADLDDAFLQV   134
  gi|16519836|ref|NP_443956.1| MPSVFFSYSHADEG--------LRDQLEKQ-LS-MLKRQ-------GVIET--WHDRR-IEAGEDIHR------AIDDHINT-DDIILLLVSADIA-SDYCYDI---EMQRAMERHHSG-----EAIVIPIILRACDWHHA-----------PFGKL-NAVPRDGKP-----------------ITQWRDDAEFLQV   134
  gi|21223984|ref|NP_629763.1| AQVFFISYAGTD---------RAWAEW-VGWHLEQA-------GHRV--ILDVWDHRTGDNLVQ------RMDEALER-ADAVVALFSTSYFE-DERWTTE---EWTAAMAHRDR-------LIPLAEPLTTSDIPRVLAA-----------KLRKN-LHGLDE-----------------SAAITALREAVNSG   130
  gi|21223014|ref|NP_628793.1| TQRIFLSVAGPD---------QAWAEV-VGWDLQQA-------GHQV--ELRDWHWRTGDFVQ------KMNNLALG-ADAVVALFSRHYFE-PKRWTRE---EWSAAVALRGR-------LVPVAIELNDDDIPALLAG-----------TLRTD-VHGLDE-----------------AAAISALLEAVHG-   129
     gi|286015|dbj|BAA02801.1| QFHAFISYSGHD---------SFWVKNELLPNLEKE-------GMQI--CLHERNFVPGKSIVE------NIITCIEK-SYKSIFVLSPNFVQ-SEWCHY----ELYFAHHNLFHEGS---NSLILILLEPIPQYSIPSSY----------HKLKSL-MARRTY---LEWPKEK----------SKRGLFWANLRAAINIK   144
   gi|4507527|ref|NP_003254.1| QFHAFISYSGHD---------SFWVKNELLPNLEKE-------GMQI--CLHERNFVPGKSIVE------NIITCIEK-SYKSIFVLSPNFVQ-SEWCHY----ELYFAHHNLFHEGS---NSLILILLEPIPQYSIPSSY----------HKLKSL-MARRTY---LEWPKEK----------SKRGLFWANLRAAINIK   144
     gi|7513378|pir||T08664 QFHAFISYSGHD---------SFWVKNELLPNLEKE-------GMQI--CLHERNFVPGKSIVE------NIITCIEK-SYKSIFVLSPNFVQ-SEWCHY----ELYFAHHNLFHEGS---NSLILILLEPIPQYSIPSSY----------HKLKSL-MARRTY---LEWPKEK----------SKRGLFWANLRAAINIK   144
     gi|11513559|pdb|1FYV|A QFHAFISYSGHD---------SFWVKNELLPNLEKE-------GXQI--CLHERNFVPGKSIVE------NIITCIEK-SYKSIFVLSPNFVQ-SEWCHY----ELYFAHHNLFHEGS---NSLILILLEPIPQYSIPSSY----------HKLKSL-XARRTY---LEWPKEK----------SKRGLFWANLRAAINIK   144
  gi|20143971|ref|NP_006059.2| QFHAFISYSEHD---------SAWVKSELVPYLEKE-------DIQI--CLHERNFVPGKSIVE------NIINCIEK-SYKSIFVLSPNFVQ-SEWCHY----ELYFAHHNLFHEGS---NNLILILLEPIPQNSIPNKY----------HKLKAL-MTQRTY---LQWPKEK----------SKRGLFWANIRAAFNMK   144
gi|20140925|sp|Q9Y2C9|TLR6_HUM QFHAFVSYSGHD---------SAWVKSELVPYLEKE-------DIQI--CLHERNFVPGKSIVE------NIINCIEK-SYKSIFVLSPNFVQ-SEWCHY----ELYFAHHNLFHEGS---NNLILILLEPIPQNSIPNKY----------HKLKAL-MTQRTY---LQWPKEK----------SKRGLFWANIRAAFNMK   144
  gi|13507603|ref|NP_109607.1| QFHAFVSYSGHD---------SAWVKNELLPNLEKD-------DIQI--CLHERNFVPGKSIVE------NIINFIEK-SYKSIFVLSPHFIQ-SEWCHY----ELYFAHHNLFHEGS---DNLILILLAPIPQYSIPTNY----------HKLKTL-MSRRTY---LEWPTEK----------NKHGLFWANLRASINVK   144
gi|11385997|gb|AAG35062.1|AF31 QFHAFVSYSGHD---------SAWVKNELLPNLEKD-------DIQI--CLHERNFVPGKSIVE------NIINFIEK-SYKSIFVLSPHFIQ-SEWCHY----ELYFAHHNLFHEGS---DNLILILLAPIPQYSIPTNY----------HKLKTL-MSRRTY---LEWPTEK----------NKHGLFWANLRASINVK   144
   gi|6755815|ref|NP_035734.1| QFHAFVSYSEHD---------SAWVKNELLPNLEKD-------DIRV--CLHERNFVPGKSIVE------NIINFIEK-SYKAIFVLSPHFIQ-SEWCHY----ELYFAHHNLFHEGS---DNLILILLEPIQNNIPSRY----------HKLRAL-MAQRTY---LEWPTEK----------GKRGLFWANLRASFIMK   144
  gi|20140792|sp|Q9EPW9|TLR6_MOU QFHAFVSYSEHD---------SAWVKNELLPNLEKD-------DIRV--CLHERNFVPGKSIVE------NIINFIEK-SYKAIFVLSPHFIQ-SEWCHY----ELYFAHHNLFHEGS---DNLILILLEPIQNNIPSRY----------HKLRAL-MAQRTY---LEWPTEK----------GKRGLFWANLRASFIMK   144
  gi|11596326|gb|AAG38563.1|AF31 QFHAFVSYSEHD---------SAWVKNELLPNLEKD-------DIRV--CLHERNFVPGKSIVE------NIINFIEK-SYKAIFVLSPHFIQ-SEWCHY----ELYFAHHNLFHEGS---DNLILILLEPIQNNIPSRY----------HKLRAL-MAQRTY---LEWPTEK----------GKRGLFWANLRASFIMK   144
  gi|13569930|ref|NP_112218.1| RHFAFISYSEHD---------SLWVKNELLPNLEKED------GSILI--CLYESYFDPGKSISE------NIVSFIEK-SYKSIFVLSPNFVQ-NEWCHY----EFYFAHHNLFHENS---DHILILLEPIPFYCIPTRY----------HKLKAL-LEKKAY---LEWPKDR----------RKCGLFWANLRAAINVN   146
     gi|11513561|pdb|1FYW|A XYDAFVSYSERD---------AYWVENLXVQELENFN-----PPFKL--XLHKRDFIPGKWIID------NIIDSIEK-SHKTVFVLSENFVK-SEWXKY----ELDFSHFRLFDENN---DAAILILEPIEKKAIPQRF----------XKLRKI-XNTKTY---LEWPXDE----------AQREGFVNLRAAIKS-   145
     gi|11513563|pdb|1FYX|A XYDAFVSYSERD---------AYWVENLMVQELENFN-----PPFKL--XLHKRDFIHGKWIID------NIIDSIEK-SHKTVFVLSENFVK-SEWXKY----ELDFSHFRLFDENN---DAAILILEPIEKKAIPQRF----------XKLRKI-MNTKTY---LEWPMDE----------AQREGFVNLRAAIKS-   145
  gi|19718734|ref|NP_003255.2| CYDAFVSYSERD---------AYWVENLMVQELENFN-----PPFKL--CLHKRDFIPGKWIID------NIIDSIEK-SHKTVFVLSENFVK-SEWCKY----ELDFSHFRLFDENN---DAAILILEPIEKKAIPQRF----------CKLRKI-MNTKTY---LEWPMDE----------AQREGFVNLRAAIKS-   145
   gi|2459624|gb|AAC34133.1| CYDAFVSYSERD---------AYWVENLMVQELENFN-----PPFKL--CLHKRDFIPGKWIID------NIIDSIEK-SHKTVFVLSENFVK-SEWCKY----ELDFSHFRLFEENN---DAAILILEPIEKKAIPQRF----------CKLRKI-MNTKTY---LEWPMDE----------AQREGFVNLRAAIKS-   145
gi|20140689|sp|Q95M53|TLR2_MAC CYDAFVSYSERD---------AYWVENLMVQELENFN-----PPFKL--CLHKRDFIPGKWIID------NIIDSIEK-SHKTVFVLSENFVK-SEWCKY----ELDFSHFRLFDENN---DAAILVLLEPIEKKAIPQRF----------CKLRKI-MNTKTY---LEWPMDE----------ARQEGFVNLRAAIKS-   145
gi|20140688|sp|Q95LA9|TLR2_BOV CYDAFVSYSERD---------SYWVENLMVQELEHFN-----PPFKL--CLHKRDFIPGKWIID------NIIDSIEK-SHKTIFVLSENFVK-SEWCKY----ELDFSHFRLFDENN---DAAILILEPIDKKAIPQRF----------CKLRKI-MNTKTY---LEWPVDE----------TQQEGFLNLRAAIRS-   145
  gi|12836693|dbj|BAB23770.1| CYDAFVSYSEQD---------SHWVENLMVQQLENSD-----PPFKL--CLHKRDFVPGKWIID------NIIDSIEK-SHKTVFVLSENFVR-SEWCKY----ELDFSHFRLFDENN---DAAILVLLEPIERKAIPQRF----------CKLRKI-MNTKTY---LEWPLDE----------GQQEVFWVNLRTAIKS-   145
  gi|20872493|ref|XP_124093.1| CYDAFVSYSEQD---------SHWVENLMVQQLENSD-----PPFKL--CLHKRDFVPGKWIID------NIIDSIEK-SHKTVFVLSENFVR-SEWCKY----ELDFSHFRLFDENN---DAAILVLLEPIERKAIPQRF----------CKLRKI-MNTKTY---LEWPLDE----------GQQEVFWVNLRTAIKS-   145
   gi|21955346|gb|AAH14693.1| CYDAFVSYSEQD---------SHWVENLMVQQLENSD-----PPFKL--CLHKRDFVPGKWIID------NIIDSIEK-SHKTVFVLSENFVR-SEWCKY----ELDFSHFRLFDENN---DAAILVLLEPIERKAIPQRF----------CKLRKI-MNTKTY---LEWPLDE----------GQQEVFWVNLRTAIKS-   145
   gi|6755813|ref|NP_036035.1| CYDAFVSYSEQD---------SHWVENLMVQQLENSD-----PPFKL--CLHKRDFVPGKWIID------NIIDSIEK-SHKTVFVLSENFVR-SEWCKY----ELDFSHFRLFDENN---DAAILVLLEPIERKAIPQRF----------CKLRKI-MNTKTY---LEWPLDE----------GQQEVFWVNLRTAIKS-   145
gi|20140897|sp|Q9R1F8|TLR2_CRI CYDAFVSYSEQD---------SYWVENLMVQQLENSE-----PPFKL--CLHKRDFVPGKWIID------NIIDSIEK-SHKTLFVLSENFVR-SEWCKY----ELDFSHFRLFDENN---DAGILVLLEPIEKKAIPQRF----------CKLRKI-MNTKTY---LEWPLDE----------GQQEVFWVNLRTAIKS-   145
   gi|21429694|gb|AAM50059.1| CYDAFVSYSEHD---------SYWVENLLVQELENSD-----PPFRL--CLHKRDFVPGKWIID------NIIDCIEK-SRKTVFVLSQNFVK-SEWCKY----ELDFSHFRLFDENN---DAAILVLLEPIEKKAIPQRF----------CKLRKI-MNTRTY---LEWPTEE----------AEHAGFWGNLRAAIKS-   145
gi|20140785|sp|Q9DD78|TL21_CHI CYDAFVSYSEND---------SNWVENIMVQQLEQAC-----PPFRL--CLHKRDFVPGKWVD------NIIDSIEK-SHKTLFVLSEHFVQ-SEWCKY----ELDFSHFRLFDENN---DVAILILEPIQSQAIPKRF----------CKLRKI-MNTKTY---LEWPPDEE---------QQQMFWENLKAALKS-   145
gi|20140787|sp|Q9DGB6|TL22_CHI CYDAFVSYSEND---------SNWVENIMVQQLEQAC-----PPFRL--CLHKRDFVPGKWVD------NIIDSIEK-SHKTLFVLSEHFVQ-SEWCKY----ELDFSHFRLFDENN---DVAILILEPIQSQAIPKRF----------CKLRKI-MNTKTY---LEWPPDEE---------QQQMFWENLKAALKS-   145
gi|6120054|gb|AAF04278.1|AF185 IYDAFVIYSSQN---------EDWVRNELVKNLEE-----GVPRFHL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSRHFIQ-SRWCIF----EYEIAQTWQFLSSH---SGIIFIVLEKVEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDNPL----------RHIFWRRLKNALLDG   146
  gi|10946594|ref|NP_067272.1| IYDAFVIYSSQN---------EDWVRNELVKNLEE-----GVPRFHL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSRHFIQ-SRWCIF----EYEIAQTWQFLSSR---SGIIFIVLEKVEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDNPL----------RHIFWRRLKNALLDG   146
   gi|4092077|gb|AAC99411.1| IYDAFVIYSSQN---------EDWVRNELVKNLEE-----GVPRFHL--CLHYRDFIHGVAIAAN-----IIQEGFHK-SRKVIVVVSRHFIQ-SRWCIF----EYEIAQTWQFLSSR---SGIIFIVLEKVEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDNPL----------RHIFWRRLKNALLDG   146
   gi|20988279|gb|AAH29856.1| IYDAFVIYSSQN---------EDWVRNELVKNLEE-----GVPRFHL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSRHFIQ-SRWCIF----EYEIAQTWQFLSSR---SGIIFIVLEKVEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDNPL----------RHIFWRRLKNALLDG   146
gi|20140357|sp|Q9QX05|TLR4_RAT IYDAFVIYSSQN---------EDWVRNELVKNLEE-----GVPRFQL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSRHFIQ-SRWCIF----EYEIAQTWQFLSSR---SGIIFIVLEKVEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDNAL----------RHIFWRRLKKALLDG   146
gi|20140920|sp|Q9WV82|TLR4_CRI IYDAFVIYSSQN---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSRHFIQ-SRWCIF----EYEIAQTWQFLSSH---SGIIFIVLEKVEKSLLKQQ----------VEYRL-LSRNTYG--LEWEDNAL----------RHIFWRRLKKALLDG   146
gi|20140868|sp|Q9MYW3|TLR4_HOR IYDAFVIYSSQN---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLHKLEKSLLRQQ----------VEYRL-LNRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
gi|20140478|sp|P58727|TLR4_FEL IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKLEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
   gi|18958365|dbj|BAB85609.1| ----FVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIQEGFYK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLAG   142
   gi|19744157|dbj|BAB86840.1| IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKLEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHVFWRRLKKALLAG   146
gi|20140798|sp|Q9GL65|TLR4_BOV IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKLEKSLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHVFWRRLKKALLAG   146
gi|6403467|gb|AAF07823.1|AF177 IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
   gi|4507533|ref|NP_003257.1| IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
  gi|19924151|ref|NP_612566.1| IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
  gi|19924149|ref|NP_612564.1| IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
  gi|19924153|ref|NP_612567.1| IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
gi|20140907|sp|Q9TSP2|TLR4_PAP IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------QHIFWRRLKKALLDG   146
gi|20271365|gb|AAM18617.1|AF49 VYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
gi|20140908|sp|Q9TTN0|TLR4_PAN IYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRRQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
gi|20271360|gb|AAM18616.1|AF49 TYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPTFQL--CLHYRDFIPGVAIAAN-----IIHEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSR---AGIIFIVLQKVEKTLLRQQ----------VEYRL-LSRNTYG--LEWEDSVL----------RHIFWRRLKKALLDG   146
   gi|21429692|gb|AAM50060.1| VYDAFVIYSSQD---------EDWVRNELVKNLEE-----GVPPFRL--CLHYRDFIPGVAIAAN-----IIQEGFHK-SRKVIVVVSQHFIQ-SRWCIF----EYEIAQTWQFLSSH---AGIIFIVLQKVEKSLLRQR----------VEYRL-LSRNTYG--LEWEDTVL----------RHIFWRRLKKALLDG   146
  gi|20985053|ref|XP_142018.1| LYDAFVSFSATD---------EAWVYKELVPALEQ----GSQITFKL--CLHQRDFEPGIDIFE------NIQNAINT-SRKTLCVVSNHYLH-SEWCRL----EVQLASMKMFYEHK---DVIILIFLEEIPNYKLSSY----------HRLRKL-INKQTF---ITWPD----------SVHQQPLFWARIRNALGKE   146
   gi|21292505|gb|EAA04650.1| HYDVFVSYSNAD---------RSWVLDHLLPNME-----GVSQINL--CLHERDFEVGYGILE------NIISCMDR-SRCLMLIVSESFLL-SHWCQF----EMHLAQHRLLETRR----DELILVLEDIPRRKCP----------KTLSYL-LKTKTY---IKWPTK----------SVHEQALFWKRLHKTLLTS   143
gi|17226680|gb|AAL37903.1|AF44 HYDVFVSYSNAD---------RSWVLDHLLPNME-----GVSQINL--CLHERDFEVGYGILE------NIISCMDR-SRCLMLIVSESFLL-SHWCQF----EMHLAQHRLLETRR----DELILVLEDIPRRKCP----------KTLSYL-LKTKTY---IKWPTK----------SVHEQALFWKRLHKTLLTS   143
   gi|21356407|ref|NP_649214.1| VYDFIFISYCQND---------RTWVLNELLPNVEET------GDVSI--CLHERDFQIGVTILD------NIISCMDR-SYSLMLIISSKFLL-SHWCQF----EMYLAQHRIFEVSK---EHLILVFLEDIPRRKRP----------KTLQYL-MDVKTY---IKWPT----------AKEDRKLFWKRLKRSLEVI   142
gi|20302769|gb|AAM18891.1|AF39 VFDAFIAHHNED---------KLWVERDLGRNLERSHN----DPNYRL--CLHQRDFQAGIPIIT------NIRTAVDS-SRKIVCVVTRSFIR-SRWCQF----EFQLAQHTMIEEGG---GVRLVLVFLEDIPRPLVQQY----------RHLQAV-VDRDTY---LEWPD----------DPRERPLFWRRLRAALGQP   148
   gi|18497294|ref|NP_569054.1| EYTAYIIHAHKD---------RDWVWEHFSPMEQ------DQSLKF--CLEERDFEAGVLGLE-----AIVNSIKR-SRKIIFVITHHLLK-DPLCRR----FKVHHAVQQAIEQN---LDSIILIFLQNIPDYKLNHAL----------CLRRGM-FKSHCI---LNWPV----------QKERINAFHKLQVALGSR   146
gi|20140736|gb|Q99MB1|TLR3_MOU EYTAYIIHAHKD---------RDWVWEHFSPMEQ------DQSLKF--CLEERDFEAGVLGLE-----AIVNSIKR-SRKIIFVITHHLLK-DPLCRR----FKVHHAVQQAIEQN---LDSIILIFLQNIPDYKLNHAL----------CLRRGM-FKSHCI---LNWPV----------QKERINAFHKLQVALGSR   146
   gi|4507531|ref|NP_003256.1| EYAAYIIHAYKD---------KDWVWEHFSSMEKE------DQSLKF--CLEERDFEAGVFELE-----AIVNSIKR-SRKIIFVITHHLLK-DPLCKR----FKVHHAVQQAIEQN---LDSIILVFLEEIPDYKLNHAL----------CLRRGM-FKSHCI---LNWPV----------QKERIGAFRHKLQVALGSK   146
   gi|22135744|gb|AAM91032.1| EYAAYIIHAYKD---------RDWVWKHFSPMEEE------DHTLRF--CLEERDFEAGVLELE-----AIVNSIRR-SRKIIFVVTQNLLK-DPLCKR----FKVHHAVQQAIEQN---LDSIILIFLEEIPDYKLNHAL----------CLRRGM-FKSHCI---LNWPV----------QKERVNAFHKLKVALGSR   146
  gi|18549456|ref|XP_086576.1| KYDAYLCFSSKD---------FTWVQNALLKHLDTQYS---DQNRFNL--CFEERDFVPGENRIA------NIQDAIWN-SRKIVCLVSRHFLR-DGWCLE----AFSYAQGRCLSDLN----SALIMVVVGSLSQYQLMKH----------QSIRGF-VQKQQY---LRWPE----------DLQDVGWFLHKLSQQIL   146
   gi|3132526|gb|AAC34376.1| KYDAYLCFSSKD---------FTWVQNALLKHLDTQYS---DQNRFNL--CFEERDFVPGENRIA------NIQDAIWN-SRKIVCLVSRHFLR-DGWCLE----AFSYAQGRCLSDLN----SALIMVVVGSLSQYQLMKH----------QSIRGF-VQKQQY---LRWPE----------DLQDVGWFLHKLSQQIL   146
   gi|2459630|gb|AAC34136.1| KYDAYLCFSSKD---------FTWVQNALLKHLDTQYS---DQNRFNL--CFEERDFVPGENRIA------NIQDAIWN-SRKIVCLVSRHFLR-DGWCLE----AFSYAQGRCLSDLN----SALIMVVVGSLSQYQLMKH----------QSIRGF-VQKQQY---LRWPE----------DLQDVGWFLHKLSQQIL   146
  gi|16751843|ref|NP_003259.2| KYDAYLCFSSKD---------FTWVQNALLKHLDTQYS---DQNRFNL--CFEERDFVPGENRIA------NIQDAIWN-SRKIVCLVSRHFLR-DGWCLE----AFSYAQGRCLSDLN----SALIMVVVGSLSQYQLMKH----------QSIRGF-VQKQQY---LRWPE----------DLQDVGWFLHKLSQQIL   146
gi|20140433|sp|O60602|TLR5_HUM KYDAYLCFSSKD---------FTWVQNALLKHLDTQYS---DQNRFNL--CFEERDFVPGENRIA------NIQDAIWN-SRKIVCLVSRHFLR-DGWCLE----AFSYAQGRCLSDLN----SALIMVVVGSLSQYQLMKH----------QSIRGF-VQKQQY---LRWPE----------DLQDVGWFLHKLSQQIL   146
   gi|8394452|ref|NP_058624.1| RYDAYFCFSSKD---------FEWAQNALLKHLDAHYS---SRNRFRL--CFEERDFIPGENHIS------NIQAAVWG-SRKTVCLVSRHFLK-DGWCLE----AFRYAQSRSLSDLK----SILIVVVVGSLSQYQLMRH----------ETIRGF-LQKQQY---LRWPE----------DLQDVGWFLDKLSGCIL   146
  gi|20832534|ref|XP_123588.1| RYDAYFCFSSKD---------FEWAQNALLKHLDAHYS---SRNRFRL--CFEERDFIPGENHIS------NIQAAVWG-SRKTVCLVSRHFLK-DGWCLE----AFRYAQSRSLSDLK----SILIVVVVGSLSQYQLMRH----------ETIRGF-LQKQQY---LRWPE----------DLQDVGWFLDKLSGCIL   146
   gi|1814022|gb|AAC53013.1| LFDAFICYCPND---------IEFVQE-MIRQLEQT-----DYRKLK--CVSDRDVLPGTCVWS-----IASELIEKR-CRRMVVVVSDDYLQ-SKECDF----QTKFALSLSPGVQQ---KRLIPIKYKAMKKDF----------PSILRF-ITICDY---TNP----------CTKSWFWTRLAKAISLP   137
   gi|110724|pir||S11226 LFDAFICYCPND---------IEFVQE-MIRQLEQT-----DYRKLK--CVSDRDVLPGTCVWS-----IASELIEKR-CRRMVVVVSDDYLQ-SKECDF----QTKFALSLSPGVQQ---KRLIPIKYKAMKKDF----------PSILRF-ITICDY---TNP----------CTKSWFWTRLAKAISLP   137
  gi|6754772|ref|NP_034981.1| LFDAFICYCPND---------IEFVQE-MIRQLEQT-----DYRKLK--CVSDRDVLPGTCVWS-----IASELIEKR-CRRMVVVVSDDYLQ-SKECDF----QTKFALSLSPGVQQ---KRLIPIKYKAMKKDF----------PSILRF-ITICDY---TNP----------CTKSWFWTRLAKAISLP   137
   gi|1763091|gb|AAB49967.1| RFDAFICYCPSD---------IQFVQE-MIRQLEQT-----NYRKLK--CVSDRDVLPGTCVWS-----IASELIEKR-CRRMVVVVSDDYLQ-SKECDF----QTKFALSLSPGAHQ---KRLIPIKYKAMKKEF----------PSILRF-ITVCDY---TNP----------CTKSWFWTRLAKAISLP   137
  gi|4505297|ref|NP_002459.1| RFDAFICYCPSD---------IQFVQE-MIRQLEQT-----NYRKLK--CVSDRDVLPGTCVWS-----IASELIEKR-CRRMVVVVSDDYLQ-SKECDF----QTKFALSLSPGAHQ---KRLIPIKYKAMKKEF----------PSILRF-IT
```

```
gi|18916402|dbj|BAB85498.1| LYDAYVCYSPKD----------EESWVQSLVNELEN------GNPSYHL--CLHYRDIPHHGAQYMQCAP---PDVETAEA-SKRIIIVLTRNFMQ-TEWSRY----EFRQGLHEALKGCI----YKLVLIEECSVVA-DAMCD----------PDLRPY-LKTGSR---LRWGQK----------GFWERLRYIMPDS---  143
gi|21291458|gb|EAA03603.1| RYDAFISYAHKD----------EEFVTKELLPRFESE------ELNFKI--CWHVRDFMPGEMIAN-------ETTKAVEE-SRRTIIILSLNYLE-SVWGQI----EFSTAYLQSLADKC----NRVIPIIYQDIGD-IEQLD----------PQLQAY-LKTNTY---IRWDDP----------WF----------  128
gi|21294921|gb|EAA07066.1| RYDAFISYSHKD----------EEFVTKELLPKLESE------ELNFKI--CWHVRDFMPGEMIAN-------ETTKAVEE-SRRTIIILSLNYLE-SVWGQI----EFSTAYLQSLADKC----NRVIPIIYQDIGD-IEQLD----------PQLQAY-LKTNTY---VRWDDP----------WFWEKLHYAMPHK---  139
gi|21294894|gb|EAA07039.1| RYDAFISYSHKD----------EDFVTKELLPRLESE------ELNFKI--CWHVRDFVPGEMIANELLYYSFQIAKAVEE-SRRTIIILSLNYFE-SMWGQM----EFSAAYLQSLVDKH----NRVIPIIYQDIGD-IDQLD----------PQLRAY-LKTNTY---VRWDDP----------WFWDKLHYAMPRK---  146
gi|21292746|gb|EAA04891.1| RYDAFISYSHKD----------EEFVTGQMLPRLESE------ELNFKI--CWHVRDFMPGEMIAS-------QITKAVED-SRRTIIILSHNYLE-SVWGQM----EFNTAYLQSLEDKR----NRVIPIIYQDIGD-IDQLD----------PELQAY-LKTNTY---VRWDDP----------WFWDKLHYAMPRK---  139
gi|21292807|gb|EAA04952.1| RYDAFISYSHKD----------EEFVTDQMLPRLESE------ELNFKI--CWHVRDFMPGEMIAS-------QITKAVED-SRRTIIILSHNYLE-SVWGQM----EFSTAYLQSLEDKR----NRVIPIIYQDIGD-IDQLD----------PELQAY-LKTNTY---VRWDDP----------WFWDKLHYAMPRK---  139
gi|17226676|gb|AAL37901.1|AF44 LYDAFVSYSHKD----------EAFITEHLVPTLERD------PMNFKL--CWHVRDWTPGEMISS------QISSSVEQ-SRTIIVLSSSFIE-SLWGQL----EFRTAHLQSMAERR----NRLIIIIYGDIGN-IYDLE----------PELRAY-LHTNTY---VRWGDP----------WFWDKLRFAMPHP---  139
gi|17137686|ref|NP_477438.1| TYDAFISYSHKD----------EELISKLLPKLES------GPHPFRL--CLHDRDWLVGDCIPE------QIVRTVDD-SKRVIIVLSQHFID-SVWARM----EFRIAYQATLQDKR----KRIIIILYRELEH-MNGID----------SELRAY-LKLNTY---LKWGDP----------LFWSKLYYAMPHN---  138
gi|9246967|gb|AAF86227.1|AF247 TYDAFISYSHKD----------EELISKLLPKLES------GPHPFRL--CLHDRDWLVGDCIPE------QIVRTVDD-SKRVIIVLSQHFID-SVWARM----EFRIAYQATLQDKR----KRIIIILYRELEH-MNGID----------SELRAY-LKLNTY---LKWGDP----------LFWSKLYYAMPHN---  138
gi|4809185|gb|AAD30131.1|AF140 TYDAFISYSHKD----------EELISKLLPKLES------GPHPFRL--CLHDRDWLVGDCIPE------QIVRTVDD-SKRVIIVLSQHFID-SVWARM----EFRIAYQATLQDKR----ERIIIILYRELEH-MNGID----------SELRAY-LKLNTY---LKWGDP----------LFWSKLYYAMPHN---  138
gi|17738225|ref|NP_524518.1| KFDAFISYSHKD----------QSFIEDYLVPQLEH------GPQKFQL--CVHERDWLVGGHIPE------NIMRSVAD-SRRTIIVLSQNFIK-SEWARL----EFRAAHRSALNEGR----SRIIVIIYSDIGD-VEKLD----------EELKAY-LKMNTY---LKWGDP----------WFWDKLRFALPHR---  139
gi|21464280|gb|AAM51943.1| KFDAFISYSHKD----------QSFIEDYLVPQLEH------GPQKFQL--CVHERDWLVGGHIPE------NIMRSVAD-SRRTIIVLSQNFIK-SEWARL----EFRAAHRSALNEGR----SRIIVIIYSDIGD-VEKLD----------EELKAY-LKMNTY---LKWGDP----------WFWDKLRFALPHR---  139
gi|466393|gb|AAA28942.1| KFDAFISYSHKD----------QSFIEQYLVPQLEH------GPQKFQL--CVHERDWLVGGFIPE------NIVRSVAD-SRRTIIVLSQNFIE-SEWARM----EFRAAHRSALNEGR----ARIIVVIYSDIGD-VEKLD----------EELKAY-LKMNTY---LKWGDP----------WFWDKLRFGVPHR---  139
gi|7297490|gb|AAF52747.1| KYDAFLSFTHKD----------EDLIEE-FVDRLEN------GRHKFRL--CFYLRDWLVGESIPD------CINQSVKG-SRRIIILMTKNFLK-STWGRL----EFRLALHATSRDRC----KRLIVVLYPDVEH-FDDLD----------SELRAY-MVLNTY---LDRNNP----------NFWNKLMYSMPHA---  138
gi|9246969|gb|AAF86228.1|AF247 KYDAFLSFTHKD----------EDLIEE-FVDRLEN------GRDKFRL--CFYLRDWLVGESIPD------CINQSVKG-SRRIIILMTKNFLK-STWGRL----EFRLALHATSRDRC----KRLIVVLYPDVEH-FDDLD----------SELRAY-MVLNTY---LDRNNP----------NFWNKLMYSMPHA---  138
gi|9246971|gb|AAF86229.1|AF247 RFDAFLAFTHKD----------EALLEE-FVDRLER------GRPRFQL--CFYLRDWLAGESIPD------CIGQSIKD-SRRIIVLMTENFMN-STWGRL----EFRLALHATSRDRC----KRLIVVLYPNVKN-FDSLD----------SELRTY-MAFNTY---LERSHP----------NFWNKLIYSMPHT---  138
gi|1223896|gb|AAC46999.1| RFDAFLAFTHKD----------EALLEE-FVDRLER------GRPRFQL--CFYLRDWLAGESIPD------CIGQSIKD-SRRIIVLMTENFMN-STWGRL----EFRLALHATSRDRC----KRLIVVLYPNVKN-FDSLD----------SELRTY-MAFNTY---LERSHP----------NFWNKLIYSMPHT---  138
gi|2144103|pir||I51903 TYDAYVLYPKT----YGEGSFAYLDTFVFKLLPEVLE------GQFGYKL--FICGRDDYVGEDIIE------VTNENVKR-SRRLIIILVRDMGSFSCLGQSS---EEQIAIYDALIREG----IKIILLEEEIQDYEKMP----------ESIQFI-KQKHGA---ICWSG-------DFKERPQSAKTR----------  146
gi|19923705|ref|NP_037255.2| TYDAYVLYPKT----YGEGSFAYLDTFVFKLLPEVLE------GQFGYKL--FICGRDDYVGEDIIE------VTNENVKR-SRRLIIILVRDMGSFSCLGQSS---EEQIAIYDALIREG----IKIILLEEEIQDYEKMP----------ESIQFI-KQKHGA---ICWSG-------DFKERPQSAKTRFWKNLRYQMPAQ  158
gi|400947|sp|Q02955|IL1R_RAT TYDAYVLYPKT----YGEGSFAYLDTFVFKLLPEVLE------GQFGYKL--FICGRDDYVGEDIIE------VTNENVKR-SRRLIIILVRDMGSFSCLGQSS---EEQIAIYDALIREG----IKIILLEEEIQDYEKMP----------ESIQFI-KQKHGA---ICWSG-------DFKERPQSAKTRFWKNLRYQMPAQ  158
gi|6680417|ref|NP_032388.1| TYDAYVLYPKT----LGEGSFSDLDTFVFKLLPEVLE------GQFGYKL--FICGRDDYVGEDIIE------VTNENVKK-SRRLIIILVRDMGGFSWLGQSS---EEQIAIYNALIREG----IKIILLEEKIQDYEKMP----------DSIQFI-KQKHGV---ICWSG-------DFQERPQSAKTRFWKNLRYQMPAQ  158
gi|20845753|ref|XP_123680.1| TYDAYILYPKT----LGEGSFSDLDTFVFKLLPEVLE------GQFGYKL--FIYGRDDYVGEDIIE------VTNENVKK-SRRLIIILVRDMGGFSWLGQSS---EEQIAIYNALIREG----IKIVLLEEKIQDYEKMP----------DSIQFI-KQKHGV---ICWSG-------DFQERPQSAKTRFWKNLRYQMPAQ  158
gi|5821231|dbj|BAA83730.1| TYDAYILYPKI----LGEGSTSNSDIFVFKVLPEVLE------QCGYKL--FIYGRDDYVGEDIVE------VTNENIKK-SRRLIIILVRETSGLSWLGSSS---EEQIAMYNALVQDG----IKIILLEEKIQDYEKMP----------ESIKFI-KRKHGA---LRWSG-------DSRKGPQSAKARFWKNVRYRMPVQ  158
gi|4504659|ref|NP_000868.1| TYDAYILYPKT----VGEGSTSDCDIFVFKVLPEVLE------QCGYKL--FIYGRDDYVGEDIVE------VTNENVKK-SRRLIIILVRETSGFSWLGGSS---EEQIAMYNALVQDG----IKVVLLEEKIQDYEKMP----------ESIKFI-KQKHGA---IRWSG-------DTQGPQSAKTRFWKNVRYHMPVQ  158
gi|4504663|ref|NP_003845.1| LYDAYVLYPKP----HKESQRHAVDALVLNILPEVLER------QCGYKL--FIFGRDEFPGQAVAN------VIDENVKL-CRRLIVIVVPESIGFGLLKNLS---EEQIAVYSALIQDG----MKVILLEEKIEDYTVMP----------ESIQYI-KQKHGA---IRWHG-------DFTEQSQCMKTKFWKTVRYHMPPR  158
gi|13637728|ref|NP_002685.3| LYDAYVLYPKP----HKESQRHAVDALVLNILPEVLER------QCGYKL--FIFGRDEFPGQAVAN------VIDENVKL-CRRLIVIVVPESIGFGLLKNLS---EEQIAVYSALIQDG----MKVILLEEKIEDYTVMP----------ESIQYI-KQKHGA---IRWHG-------DFTEQSQCMKTKFWKTVRYHMPPR  158
gi|10644686|gb|AAG21368.1|AF28 LYDAYVLYPKP----HKESQRHAVDALVLNILPEVLER------QCGYKL--FIFGRDEFPGQAVAN------VIDENVKL-CRRLIVIVVPESIGFGLLKNLS---EEQIAVYSALIQDG----MKVILVEEKIEDYTVMP----------ESIQYI-KQKHGA---IRWHG-------DFTEQSQCMKTKFWKTVRYHMPPR  158
gi|18875334|ref|NP_573456.1| LYDAYVLYPKY----PRGSQGHDVDTLVLKILPEVLEK------QCGYKL--FIFGRDEFPGQAVAS------VIDENIKL-CRRLMVFVAPESSSFGFLKNLS---EEQIAVYNALIQHG----MKVILLEEKVKDYSTMP----------ESIQYI-RQKHGA---IQWDG-------DFTEQSQCAKTKFWKKVRYHMPPR  158
gi|20845762|ref|XP_123628.1| LYDAYVLYPKY----PRGSQGHDVDTLVLKILPEVLEK------QCGYKL--FIFGRDEFPGQAVAS------VIDENIKL-CRRLMVFVAPESSSFGFLKNLS---EEQIAVYNALIQHG----MKVILLEEKVKDYSTMP----------ESIQYI-RQKHGA---IQWDG-------DFTEQSQCAKTKFWKKVRYHMPPR  158
gi|19424266|ref|NP_598259.1| LYDAYVLYPKY----PRESQGHDVDTLVLKILPEVLEK------QCGYKL--FIFGRDEFPGQAVAS------VIDENIKL-CRRLMVLVAPETSSFSFLKNLT---EEQIAVYNALVQDG----MKVILLEEKVKDYSTMP----------ESIQYI-RQKHGA---IQWDG-------DFTEQAQCAKTKFWKKVRYHMPPR  158
gi|86325|pir||JQ1526 IYDAYVLYPKN-----RESCLYSSDIFALKILPEVLER------QCGYNL--FIFGRNDLAGEAVID------VTDEKIHQ-SRRVIIILVPEPSCYGILEDAS--EKHLAVYNALIQDG----IKIILLEEKIEDYANMP----------ESIKYV-KQKYGA---IRWTG-------DFSERSHSASTRFWKKVRYHMPSR  157
gi|12082130|dbj|BAB20774.1| IYDAYVIYPRS-----HSTEATFVEYFVYQIMPDILEN------KCGYTL--CIYGRDTYPGEDKAN------AIEKRIQK-SRRLIIILTQQLIN-CQELNY----DQHIALYNALIQND----TKVILLEMEKMGSYENLQ----------ESLRYI-IKQQGT---VKWKE-------QHTVHPQSSNSKFWKHVRYHMPVT  155
gi|12082128|dbj|BAB20773.1| IYDAYVIYPRS-----HSTEATFVEYFVYQIMPDILEN------KCGYTL--CIYGRDTYPGEDKAN------AIEKRIQK-SRRLIIILTQQLIN-CQELNY----DQHIALYNALIQND----TKVILLEMEKMGSYENLQ----------ESLRYI-IKQQGT---VKWKE-------QHTVHPQSSNSKFWKHVRYHMPVT  155
gi|12082382|dbj|BAB20892.1| IYDAYVIYPRS-----HSTEATFVEYFVYQIMPDILEN------KCGYTL--CIYGRDTYPGEDKAN------AIEKRIQK-SRRLIIILTQQLIN-CQELNY----DQHIALYNALIQND----TKVILLEMEKMGSYENLQ----------ESLRYI-IKQQGT---VKWKE-------QHTVHPQSSNSKFWKHVRYHMPVT  155
gi|12082383|dbj|BAB20893.1| IYDAYVIYPRS-----HSTEATFVEYFVYQIMPDILEN------KCGYTL--CIYGRDTYPGEDKAN------AIEKRIQK-SRRLIIILTQQLIN-CQELNY----DQHIALYNALIQND----TKVILLEMEKMGSYENLQ----------ESLRYI-IKQQGT---VKWKE-------QHTVHPQSSNSKFWKHVRYHMPVT  155
gi|488276|gb|AAA18480.1| LYDAYIIYPRVFR--GSAAGTGSVEYFVHYTLPDVLEN------KCGYKL--CIYGRDLLPGQDAAT------VVESSIQN-SRRQVFVLAPHMMH-SKEFAY----EQEIALHSALIQNN----SKVILIEMEPMGEASRLQ--------LGDLQDSLQHL-VKMQGT---IKWRE-------DHVADKQSLSSKFWKHVRYQMPVP  163
gi|1085788|pir||S42633 LYDAYIIYPRVFR--GSAAGTGSVEYFVHYTLPQVLEN------KCGYKL--QIYGRDLLPGQDAAT------VVESSIQN-SRRQVFVLAPHMMH-SKEFAY----EQEIALHSALIQNN----SKVILIEMEPMGEASRLQ--------LGDLQDSLQHL-VKMQGT---IKWRE-------DHVADKQSLSSKFWKHVRYQMPVP  163
gi|346949|pir||S29498 LYDAYIIYPRVFR--GSAAGTHSVEYFVHHTLPDVLEN------KCGYTL--CIYGRDMLPGEDAVT------VVESSIQN-SRRQVFVLAPHMMH-NKEFAY----EQEIALHSALIQNN----SKVILIEMEPLGEASRLQ--------VGDLQDSLQHL-VKIQGT---IKWRE-------DHVADKQSLSSKFWKHVRYQMPVP  163
gi|11136632|ref|NP_057316.2| LYDAYVVYPRNYK--SSTDGASRVEHFVHQILPDVLEN------KCGYTL--CIYGRDMLPGEDVVT------AVETNIRK-SRRHIFILTPQITH-NKEFAY----EQEVALHCALIQND----AKVILIEMEALSELDMLQ------AEALQDSLQHL-MKVQGT---IKWRE-------DHIANKRSLNSKFWKHVRYQMPVP  163
gi|20984524|ref|XP_141905.1| DYDAYLSYTKVDPD-QWNQETGEEERFALEILPDMLEK------HYGYKL--FIPDRDLIPTGTYIE------DVARCVDQ-SKRLIIVMTPNYVVRRGWSIF---ELETRLRNMLVTGE---IKVILIECSELRGIM----------NYQEVEALKHT-IKLLTV---IKWHGP---------KCNKLNSKFWKRLQYEMPFK  159
gi|7321329|gb|AAF59411.1|AF181 DYDAYLSYTKVDPD-QWNQETGEEERFALEILPDMLEK------HYGYKL--FIPDRDLIPTGTYIE------DVARCVDQ-SKRLIIVMTPNYVVRRGWSIF---ELETRLRNMLVTGE---IKVILIECSELRGIM----------NYQEVEALKHT-IKLLTV---IKWHGP---------KCNKLNSKFWKRLQYEMPFK  159
gi|7657232|ref|NP_055086.1| DYDAYLSYTKVDPD-QWNQETGEEERFALEILPDMLEK------HYGYKL--FIPDRDLIPTGTYIE------DVARCVDQ-SKRLIIVMTPNYVVRRGWSIF---ELETRLRNMLVTGE---IKVILIECSELRGIM----------NYQEVEALKHT-IKLLTV---IKWHGP---------KCNKLNSKFWKRLQYEMPFK  159
gi|11225607|ref|NP_059112.1| EYDAYLSYTKVDQD-TLDCDNPEEEQFALEVLPDVLEK------HYGYKL--FIPERDLIPSGTYME------DLTRYVEQ-SRRLIIVLTPDYILRRGWSIF---ELESRLHNMLVSGE---IKVILIECTELKGKV----------NCQEVESLKRS-IKLLSL---IKWKGS---------KSSKLNSKFWKHLVYEMPIK  159
gi|7321331|gb|AAF59412.1|AF181 EYDAYLSYTKVDQD-TLDCDNPEEEQFALEVLPDVLEK------HYGYKL--FIPERDLIPSGTYME------DLTRYVEQ-SRRLIIVLTPDYILRRGWSIF---ELESRLHNMLVSGE---IKVILIECTELKGKV----------NCQEVESLKRS-IKLLSL---IKWKGS---------KSSKLNSKFWKHLVYEMPIK  159
gi|13507616|ref|NP_109613.1| EYDAYLSYTKVDQD-TLDCDNTEEEQFALEILPDVLEK------HYGYKL--FIPERDLIPSGTYIE------DLTRCVEQ-SRRLIIVLTPDYILRRGWSIF---ELESRLHNMLVSGE---IKVILIECTELKGKV----------NCQEVESLKHN-IKLLSL---IKWKGP---------KSSKLNSKFWKHLVYEMPIK  159
gi|20985589|ref|XP_125444.1| EYDAYLSYTKVDQD-TLDCDNTEEEQFALEILPDVLEK------HYGYKL--FIPERDLIPSGTYIE------DLTRCVEQ-SRRLIIVLTPDYILRRGWSIF---ELESRLHNMLVSGE---IKVILIECTELKGKV----------NCQEVESLKHN-IKLLSL---IKWKGP---------KSSKLNSKFWKHLVYEMPIK  159
gi|6680423|ref|NP_032391.1| TYDAFVSYLKECM-----PENKEEYTFAVETLPRVLEK------QFGYKL--CIFERDVVPGGAVVE------EIHSLIEK-SRRIIIVLSQSYLTNGARR-----ELESGLHEALVERK----IKIILIEFTPAS----------NITFLPPSLKL-LKSYRV---LKWRA----------DSPSMNSRFWKNLVYLMPAK  149
gi|1588368|prf||2208371B TYDAFVSYLKECM-----PENKEEYTFAVETLPRVLEK------QFGYKL--CIFERDVVPGGAVVE------EIHSLIEK-SRRIIIVLSQSYLTNGARR-----ELESGLHEALVERK----IKIILIEFTPAS----------NITFLPPSLKL-LKSYRV---LKWRA----------DSPSMNSRFWKNLVYLMPAK  149
gi|1588367|prf||2208371A TYDAFVSYLKECR-----PENGEEHTFAVEILPRVLEK------HFGYKL--CIEERDVVPGGAVVD------EIHSLIEK-SRRIIIVLSKSYMSNEVRY-----ELESGLHEALVERK----IKIILIEFTPVT----------DFTFLPQSLKL-LKSHRV---LKWKA----------DKSLSYNSRFWKNLLYLMPAK  151
gi|4504655|ref|NP_003846.1| TYDAFVSYLKECR-----PENGEEHTFAVEILPRVLEK------HFGYKL--CIFERDVVPGGAVVD------EIHSLIEK-SRRIIIVLSKSYMSNEVRY-----ELESGLHEALVERK----IKIILIEFTPVT----------DFTFLPQSLKL-LKSHRV---LKWKA----------DKSLSYNSRFWKNLLYLMPAK  150
gi|4504661|ref|NP_002173.1| EYDIYVSYAR---------NAEEEEFVLLTLRGVLEN------EFGYKL--CIFDRDSLPGGIVTD------ETLSFIQK-SRRLLVVLSPNYVLQGTQALL---EKLAGLENMASRGN----INVILVQYKAVK----------ETKVKELKRA-KTVLTV---IKWKG----------EKSKYPQGRFWKQLQVAMPVK  146
gi|6680421|ref|NP_032390.1| EYDIYVSYAR---------NVEEEEFVLLTLRGVLEN------EFGYKL--CIFDRDSLPGGIVTD------ETLSFIQK-SRRLLVVLSPNYVLQGTQALL---EKLAGLENMASRGN----INVILVQYKAVK----------DMKVKELKRA-KTVLTV---IKWKG----------EKSKYPQGRFWKQLQVAMPVK  146
gi|6981096|ref|NP_037100.1| EYDIYVSYAR---------NAEEEEFVLLTLRGVLEN------EFGYKL--CIFDRDSFPGGIVTD------ETLSFIQK-SRRLLVVLSPNYVLQGTQALL---EKLAGLENMASRGN----INVILVQYKAVK----------DLKVKELKRA-KSVLTV---IKWKG----------EKSKYPQGRFWKQLQVAMPVK  146
gi|4504657|ref|NP_003844.1| EDFAFVSYAKWSSFPSEATSSLSEEHALASLFPDVLENN------KYGYSL--CLEDRDVAPGGVYAE------DIVSIIEK-SRRGIFILSPNYVNGPSY--FAEQAAVNLALADQT----LKLILKFCVFQPESLP----------YLVKKGRLFPT---VTWKG----------LKSVPNSRFWKMRYHMPVK  156
gi|6754326|ref|NP_034683.1| EFDAFVSYSNWSSPETDAVGSLSEEHALALNLPRVLED------TYGYRL--CLLDRDVTPGGVKAE------DIVSIIEK-SRRGIFILSPSYVNGPRW--FEQAAAVNLALADQT----LKLILKFCSFQEPESLP----------YLVKKGRLFPT---VTWKG----------LKSVHASSRFWTQLRYHMPVK  156
gi|16332137|ref|NP_442865.1| QFEIALSFAGE----------DREYVDRVANLLREA------GVTV--FYDIFEEANLWGKNLYDY----LSEIYQDK-ALFIMFISFNSYSRK-MWTNH----ERQAMQARAFQEH----EYILPARFDETPIPSVLP----------TVGYISLRSK-TPEEFV---ETIK----------  127
gi|21224333|ref|NP_630112.1| GYGAFLSYGER---------DRRWLP-QLRHAIEKQSRPWYKPPHIRYL--FLDKTESIGREKDGK------IEAGEAR-SDWLVVLASPEARA-SWVVDR---EIAWMEEHKSVH----TILLWVTAGQLVWDEERGDWD----------PERSTA-PARLA---GKFE----------RQPVVKSWDPRPDGD  146
gi|20302166|ref|NP_057694.2| FYDAYISYDTKD---------ASVTDWVINELRYHLEESR----DKNVLI--CLEERDWDPGLAIDN------LMQSINQ-SKKTVFVLTKKYAK--SWNFKT--AFYLALQRLMDEN----MDVIIFILEPVLQHSQYLR----------LRQR-ICKSSI---IQWPDN----------PKAEGLFWQTLRNVVLTE  147
gi|20302168|ref|NP_619542.1| FYDAYISYDTKD---------ASVTDWVINELRYHLEESR----DKNVLI--CLEERDWDPGLAIDN------LMQSINQ-SKKTVFVLTKKYAK--SWNFKT--AFYLALQRLMDEN----MDVIIFILEPVLQHSQYLR----------LRQR-ICKSSI---IQWPDN----------PKAEGLFWQTLRNVVLTE  147
gi|7576933|gb|AAF64061.1|AF246 FYDAYISYDTKD---------ASVTDWVINELRYHLEESR----DKNVLI--CLEERDWDPGLAIDN------LMQSINQ-SKKTVFVLTKKYAK--SWNFKT--AFYLALQRLMDEN----MDVIIFILEPVLQHSQYLR----------LRQR-ICKSSI---IQWPDN----------PKAEGLFWQTLRNVVLTE  147
gi|18875362|ref|NP_573475.1| FYDAYISYDTKD---------ASVTDWVINELRYHLEESE----DKSVLI--CLEERDWDPGLPIDN------LMQSINQ-SKKTIFVLTKKYAK--SWNFKT--AFYLALQRLMDEN----MDVIIFILEPVLQYSQYLR----------LRQR-ICKSSI---IQWPNN----------PKAENLFWQSLKNVVLTE  147
gi|20986260|ref|XP_136161.1| FYDAYISYDTKD---------ASVTDWVINELRYHLEESE----DKSVLI--CLEERDWDPGLPIDN------LMQSINQ-SKKTIFVLTKKYAK--SWNFKT--AFYLALQRLMDEN----MDVIIFILEPVLQYSQYLR----------LRQR-ICKSSI---IQWPNN----------PKAENLFWQSLKNVVLTE  147
gi|7706093|ref|NP_057646.1| CYDAFIVYDTKD---------PAVTEWVLAELVAKLEDPR----EKHFNL--CLEERDWLPGQPVLEN------LSQSIQL-SKKTVFVMTDKYAKTENFKIA----FYLSHQRLMDEK----VDVIILIFLEKPFQKSK----------FLQLRKR-LCGSSV---LEWPTN----------PQAHPYFWQCLKNALATD  147
gi|8575525|gb|AAF78035.1|AF245 CYDAFIVYDTKD---------PAVTEWVLAELVAKLEDPR----EKHFNL--CLEERDWLPGQPVLEN------LSQSIQL-SKKTVFVMTDKYAKTENFKIA----FYLSHQRLMDEK----VDVIILIFLEKPFQKSK----------FLQLRKR-LCGSSV---LEWPTN----------PQAHPYFWQCLKNALATD  147
gi|18875360|ref|NP_573474.1| CYDAFIVYDTKN---------SAVTEWVLQELVAKLEDPR----EKHFNL--CLEERDWLPGQPVLEN------LSQSIQL-SKKTVFVMTQKYATESFKMA----FYLSHQRLLDEK----VDVIILIFLEKPLQKSK----------FLQLRKR-LCRSSV---LEWPAN----------PQAHPYFWQCLKNALTTD  147
gi|20140793|sp|Q9EQU3|TLR9_MOU PYDAFVVFDKAQ---------SAVADWVYNELRVRLEERR----GRRALRL--CLERDDWLPGQTLFEN------LWASIYG-SRKTLFVLAHTDRVSGLLRTS----FLLAQQRLLEDRK----DVVVLVIRPDAHRSRYVR----------LRQR-LCRQSV---LFWPQQ----------PNGQGGFWAQLSTALTRD  148
gi|13626030|ref|NP_112455.1| PYDAFVVFDKAQ---------SAVADWVYNELRVRLEERR----GRRALRL--CLERDDWLPGQTLFEN------LWASIYG-SRKTLFVLAHTDRVSGLLRTS----FLLAQQRLLEDRK----DVVVLVIRPDAHRSRYVR----------LRQR-LCRQSV---LFWPQQ----------PNGQGGFWAQLSTALTRD  148
gi|13507173|gb|AAK28488.1|AF31 PYDAFVVFDKAQ---------SAVADWVYNELRVRLEGRR----GRRALRL--CLERDDWLPGQTLFEN------LWASIYG-SRKTLFVLAHTDRVSGLLRTS----FLLAQQRLLEDRK----DVVVLVIRPDAHRSRYVR----------LRQR-LCRQSV---LFWPQQ----------PNGQGGFWAQLSTALTRD  148
gi|8575529|gb|AAF78037.1|AF245 PYDAFVVFDKTQ---------SAVADWVYNELRGQLEECR----GRWALRL--CLEERDWLPGKTLFEN------LWASVYG-SRKTLFVLAHTDRVSGLLRAS----FLLAQQRLLEDRK----DVVVLVISPDGRRSRYVR----------LRQR-LCRQSV---LLWPHQ----------PSGQRSFWAQLGMALTRD  148
gi|20302171|ref|NP_619633.1| PYDAFVVFDKTQ---------SAVADWVYNELRGQLEECR----GRWALRL--CLEERDWLPGKTLFEN------LWASVYG-SRKTLFVLAHTDRVSGLLRAS----FLLAQQRLLEDRK----DVVVLVISPDGRRSRYVR----------LRQR-LCRQSV---LLWPHQ----------PSGQRSFWAQLGMALTRD  148
gi|8394456|ref|NP_059138.1| PYDAFVVFDKTQ---------SAVADWVYNELRGQLEECR----GRWALRL--CLEERDWLPGKTLFEN------LWASVYG-SRKTLFVLAHTDRVSGLLRAS----FLLAQQRLLEDRK----DVVVLVISPDGRRSRYVR----------LRQR-LCRQSV---LLWPHQ----------PSGQRSFWAQLGMALTRD  148
gi|20874050|ref|XP_139029.1| NYDVFISYCE---------EDQAWVLEELVPVLEKAPPE---GEGIRL--CLPARDFGIGNDRMES------MIASMGK-SRATLCVLTGQATA-SPWCNL---ELRLATYHLVARPG---TTHLLLLFLEPLDRQRLHSYH----------RLSRW-LQKEDYFD----------QGKVEWNSFCEQLKRR  143
gi|13430189|gb|AAK25761.1|AF33 EFDVNIIFYD----------DDEEWIRDNLRFTDLEVQ------LPQFQRN-TFGDADLIPGMYYLDYA------VDYYVSR-SYKTIILLSRAAVR-DRWFML----KFRTAMNHVSDTQT----EFVVVVFEDIPDDEIP----------FLARL-FLSDGRPY-LHWTED----------VRGQEYFWNELAKNLTIN  145
gi|13430191|gb|AAK25762.1|AF33 EFDLNIIFYE----------DDEEWVRQQLQPALEER------LPQFQRN-VFGDQDLILGMHYLDYA------VDYYVSH-SYKTLILLSRAAVH-DRWFML----KLRTAMDHVSDTQT----EFVVVVFEDFPDEDIP----------FLARL-YLSDGRPY-QHWTED----------VGGHVFFWNALVKNLTIN  145
gi|13384079|gb|AAK21261.1| EFHLNMFLE----------EEEEWVDRVIKPALEER------FPHLQNI-IYGDKDLHLGMFYIN------AINDALDN-SFKTVLLISNQSIR-DAWCMT----KLRMALEHLNETG----LDKILILFEDIEDENLP----------YLVRL-FMSRNKPY-MLWTD----------DEDGQELFWAQFEKSMRAN  145
gi|11141877|ref|NP_068577.1| LYDAYVSYSDC---------PEDRKFVNFILKPQLERR------RGYKL--FLDDRDLLPRAEPSAD------LLVNLSR-CRRLIVVLSDAFLS-RAWCSH----SFREGLCRLLELT----RRPIFITFEGQRRDPAHPALR----------LLRQH-RHLVTL---LLWRPG----------SVTPSSDFWKEVQLALPRK  147
gi|7271943|gb|AAF44701.1|AF239 LYDAYVSYSDC---------PEDRKFVNFILKPQLERR------RGYKP--FLERDDLLPRAEPSAD------LLVNLSR-CRRLIVVLSDAFLS-RPWCSQ----SFREGLCRLLELT----RRPIFITFEGQRREPIHPALR----------LLRQH-RHLVTL---VLWKPG----------SVTPSSDFWKELQLALPRK  147
gi|20846858|ref|XP_133951.1| LYDAYVSYSDC---------PEDRKFVNFILKPQLERR------RGYKL--FLERDDLLPRAEPSAD------LLVNLSR-CRRLIVVLSDAFLS-RPWCSQ----SFREGLCRLLELT----RRPIFITFEGQRREPIHPALR----------LLRQH-RHLVTL---VLWKPG----------SVTPSSDFWKELQLALPRK  147
gi|12746440|ref|NP_075546.1| LYDAYVSYSDC---------PEDRKFVNFILKPQLERR------RGYKL--FLERDDLLPRADASAD------LLVNLSR-CRRLIVVLSDAFLS-RPWCSQ----SFREDCAAYWSSP-----ADLSSSPLRARGVSPYTLLSG----------SCRHD-RHLVTL---VLWKPG----------SVTPSSDFWKELQLALPRK  147
gi|21293005|gb|EAA05150.1| LYDCYLVHSVH---------DSDFVGRLLGAELQLH------GYSV--FQHHRDVHPGAFLADS------LQSAADS-ARKLLLVVSMNFLQ-TEWSQP----QFRVALQSVIESIRPAHRRHKIVLVLTAPVEIVAMDP----------IMHLL-IRTCTV---ACWG----------ERKFWDKLRYALPDV  141
gi|21292926|gb|EAA05071.1| LYDAYLLYSAA---------DADLVTSQIGQELEHH------GYGM--CLHYRDVHGGAGFLGDT------VQSAADA-SRKLVLFVSVKFLQ-LEWSQP----ERFAALQAALELIRPSRRKQRIVLIISVPGSMLAMDP----------IMDIL-ARTCTV---IAWD----------DRRFWDKLRFAMPDL  140
gi|15239702|ref|NP_199689.1| KFYVFLSFQGLD---------TRRTFVS-HLRRSLDRK------GIKI--FEDENESLRGELDSSA------VYQTIGE-SKVAVVLISVNYAS-SPLCLD----SLLKILKFHQSGS-----LVLIPIFYEVDPMDVRKQIG----------KLYEA-FSLHERENP----------EKVQTWRQALSQL  135
gi|15218619|ref|NP_177430.1| EHKVFLSFRRED---------TRRTFVS-HLYRSLDQK------EIRTY-KFENQQAGDGKRISS------EVKQAINE-SRIAVVVISENYVS-SVLCLD----VLAKIIERLP-------LIKIETIVFEVDPGLDTRPTG----------KFADD-FRRHEARENR----------RTVNRWRDALDQL  135
gi|15218617|ref|NP_177428.1| KFEVFLSFCSED---------PSKTFVS-VLDRWLEQK------DITTN-FKDDS----------FLAEE-SKLAVVVVSESYPI-SVLCLN----QLEKIVNSHSEGR-----LSILPIFYGVDPYNVRKQTG----------YLAEP-FQELGEGYPD----------DKIQEWRVSLTKL  124
gi|15233861|ref|NP_192680.1| KFDVFLSFSVE----------AETLVS-DLRSSFSEN------GIT----MKDDDIEKGVSSLGS------ERSEGIRE-SKVAVVVISQSYAI-SAQCLN----ELQTIVNFHDERR----ISILPIFYGVDYDDVRNQIK----------ELAAS-FRKLGKEYPS----------EKVQAWMIAIKLL  133
gi|15220796|ref|NP_173204.1| ELDVFLSFSG----------KIALDVDFGYDLSRN------GIKAF-KSESWKESSFKPTIDLR------TLEALTE-SKVAVVMTSDEEVS--SVGFLE----ELIVIIEFQEKRS----LTVIPVFLTKHPLDVEK----------VSQI-FPERAK----------IWRTAIAKL  122
gi|15242569|ref|NP_198825.1| ELDVFLSFCC----------QTSSHG-YFQNIIRN------GIRTF-TSYRCLERKFGPTGQR------TLKALEE-SRVAVVMSTKTKPC--SVGFLE----ELLVILEFQEKGS----LMVIPIFLTDLSFN----------VSRTAIGTKL  121
gi|21655205|gb|AAM28917.1| VFDIFLNHRGPD----------SKKTLAKHLYDGLSKH------GLRV--FLDEDEIQAGEYLKPQ------IESAIRT-AWVHIAIFSKGYAD-SPWCLN----ELLLMFQSG-----STIIPVFFYDVDPADERWVTHSE----------KGVYARS-LQTLEKKRKADSTPR----------YDPDTIQKWRKALTDA  144
gi|21655199|gb|AAM28914.1| SHQVFINHRGVD----------VKKTFVR-SQRTLREK------GLTA--FNEEEMQGGCESSQ------LNDAIRT-ASVHVAIFSRYYVE-SEWCLN----ELLLMLKSNGP-----IVPVFYRVKPQDVRWMLG----------LVGEP-LATHEMKGRHDP----------STIEEWRNAINEV  134
gi|21655191|gb|AAM28910.1| ---VFLNHRGVD----------VKNTLASNLYYRRHL------GLRV--FDKEEMQKGSRIDFV------IENVIKA-TPLHIAIFSARYAE-SRWCMD----ELLLMIESG-----STIIAVYNLNPAEMWSNPVDG----------TNGVAEP-RLLLEEEKAFDPQNHQLS--------ERPRYKSSTIEKWKTAIMEV  149
gi|21655261|gb|AAM28907.1| AYDVFINCSSSD----------DSSKFAAHLCRRLISY------GLRA--FLNREMFDSDGLPKLQ------TEIAIRT-ASVCVFIFSPRYAE-SIRCLN----ELLLMLESG-----ATIIPVFHHWTPAELRWTRNG----------DGVFAQA-P
```